

# JVC

## SERVICE MANUAL

COLOUR TELEVISION

**AV-28H4BU, AV-28H4SU,  
AV-28H40SU, AV-28H77SK,  
AV-32H4BU, AV-32H4SU,  
AV-32H40SU, AV-32H47SU,  
AV-32H77SK**

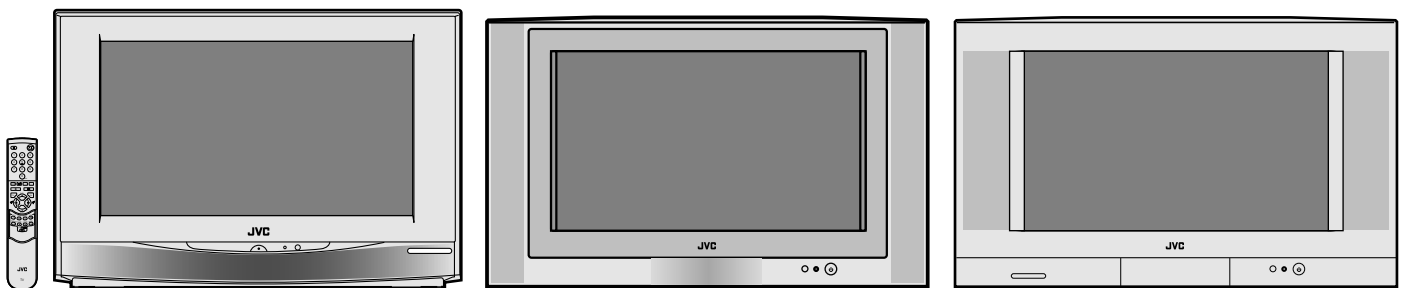
BASIC CHASSIS

ML2

InterArt

*Natural Vision*

**T-V LINK**



AV-28H4SU, AV-28H4BU  
AV-32H4SU, AV-32H4BU

AV-28H40SU, AV-28H77SK  
AV-32H40SU, AV-32H77SK

AV-32H47SU

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# SPECIFICATION

Item		Content		
		AV-28H4BU AV-28H4SU	AV-28H40SU	AV-28H77SK
Dimensions ( W × H × D )		76.2cm × 52.8cm × 49.3cm	85.4cm × 50.8cm × 49.0cm	
Mass		39.0kg		
TV RF System		CCIR (B/G, D/K, I, L)		CCIR (I)
Colour System		PAL SECAM NTSC 3.58 / NTSC 4.43 (Only in EXT mode)		PAL NTSC 3.58 / NTSC 4.43 (Only in EXT mode)
Stereo System		A2 (B/G, D/K) NICAM (B/G, I, D/K, L)		NICAM (I)
Teletext System		FLOF (Fastext) TOP (German system) WST (World standard system)		FLOF (Fastext) WST(World standard system)
Receiving Frequency	VHF	47MHz ~ 470MHz		---
	UHF	470MHz ~ 862MHz		
	French CATV	116MHz ~ 172MHz 220MHz ~ 469MHz		---
Intermediate Frequency	VIF	38.9MHz (B/G, D/K, I, L)		38.9MHz (I)
	SIF	33.4MHz (5.5MHz:B/G) 32.9MHz (6.0MHz:I) 32.4MHz (6.5MHz:L, D/K)		32.9MHz (6.0MHz:I)
Colour Sub Carrier Frequency	PAL	4.43MHz		
	SECAM	4.40625MHz / 4.25MHz		---
	NTSC	3.58MHz / 4.43MHz		
Power Input		AC220V ~ AC240V, 50Hz		
Power Consumption		120W, standby : 2.5W		
Aerial Input Terminal		75Ω unbalanced, coaxial		
Picture Tube		Visible size : 66cm, Measured diagonally    H : 58.3cm × V : 33.0cm		
High Voltage		31.0kV (+1kV / -1.5kV) (at zero beam current)		
Speaker		13cm × 6.5cm oval type × 2		
Audio Power Output		10W + 10W		
EXT-1 / EXT-2 / EXT-3 (Input / Output)		21-pin Euro connector, SCART socket × 3		
EXT-4 (Input)	S-Video	Mini-DIN 4 pin × 1 Y : 1V(p-p) positive (negative sync, 75Ω) C : 0.3V(p-p) (Burst signal, 75Ω)		
	Video Audio (L/R)	1V(p-p) 75ohm, RCA pin jack × 1 500mV(rms) (-4dBs), High impedance, RCA pin jack × 2		
AUDIO OUT (Variable)		0~1000mV(rms), Low impedance, RCA pin jack × 2		
Headphone Jack		3.5mm Stereo mini jack × 1		
Remote Control Unit		RM-C64H (AAA/R03 dry battery × 2)		

Design & specifications are subject to change without notice.

Item		Content			
		AV-32H4BU AV-32H4SU	AV-32H40SU	AV-32H47SU	AV-32H77SK
Dimensions ( W × H × D )		86.4cm × 58.7cm × 55.0cm	94.6cm × 56.1cm × 54.7cm	94.8cm × 56.2cm × 55.0cm	94.6cm × 56.1cm × 54.7cm
Mass		53.0kg		52.5kg	53.0kg
TV RF System		CCIR (B/G, D/K, I, L)			CCIR (I)
Colour System		PAL SECAM NTSC 3.58 / NTSC 4.43 (Only in EXT mode)			PAL NTSC 3.58 / NTSC 4.43 (Only in EXT mode)
Stereo System		A2 (B/G, D/K) NICAM (B/G, I, D/K, L)			NICAM (I)
Teletext System		FLOF (Fastext) TOP (German system) WST(World standard system)			FLOF (Fastext) WST (World standard system)
Receiving Frequency	VHF	47MHz ~ 470MHz			---
	UHF	470MHz ~ 862MHz			
	French CATV	116MHz ~ 172MHz 220MHz ~ 469MHz			---
Intermediate Frequency	VIF	38.9MHz (B/G, D/K, I, L)			38.9MHz (I)
	SIF	33.4MHz (5.5MHz:B/G) 32.9MHz (6.0MHz:I) 32.4MHz (6.5MHz:L, D/K)			32.9MHz (6.0MHz:I)
Colour Sub Carrier Frequency	PAL	4.43MHz			
	SECAM	4.40625MHz / 4.25MHz			---
	NTSC	3.58MHz / 4.43MHz			
Power Input		AC220V ~ AC240V, 50Hz			
Power Consumption		130W, standby : 2.5W			
Aerial Input Terminal		75Ω unbalanced, coaxial			
Picture Tube		Visible size : 76cm, Measured diagonally H : 67.4cm × V : 38.4cm			
High Voltage		31.0kV (+1kV / -1.5kV) (at zero beam current)			
Speaker		13cm × 6.5cm oval type × 2			
Audio Power Output		10W + 10W			
EXT-1 / EXT-2 / EXT-3 (Input / Output)		21-pin Euro connector, SCART socket × 3			
EXT-4 (Input)	S-Video	Mini-DIN 4 pin × 1 Y : 1V(p-p) positive (negative sync, 75Ω) C : 0.3V(p-p) (Burst signal, 75Ω)			
	Video	1V(p-p) 75ohm, RCA pin jack × 1			
	Audio (L/R)	500mV(rms) (-4dBs), High impedance, RCA pin jack × 2			
AUDIO OUT (Variable)		0~1000mV(rms), Low impedance, RCA pin jack × 2			
Headphone Jack		3.5mm Stereo mini jack × 1			
Remote Control Unit		RM-C64H (AAA/R03 dry battery × 2)			

Design & specifications are subject to change without notice.

# SECTION 1

## PRECAUTION

### 1.1 SAFETY PRECAUTIONS [EXCEPT FOR UK]

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND, the ISOLATED (NEUTRAL) : (  $\equiv$  ) side GND and EARTH : (  $\oplus$  ) side GND.  
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).
- (6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- (7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k $\Omega$  2W resistor to the anode button.

- (8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### (9) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

##### a) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. ( . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

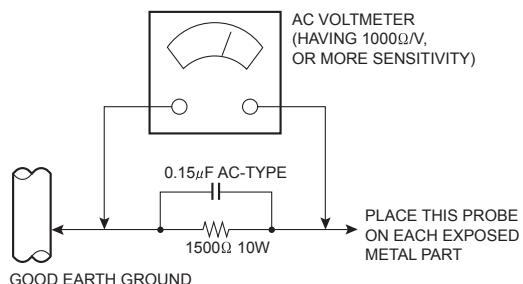
##### b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).


#### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 $\Omega$ /V or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



## **1.2 SAFETY PRECAUTIONS [FOR UK]**

- (1) The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (  ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

### **WARNING**

- (1) The equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

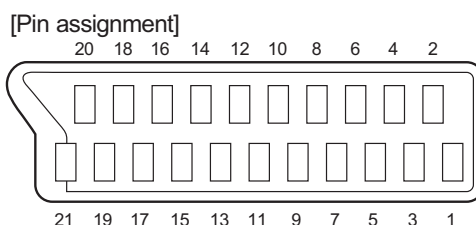
#### 2.1 FEATURES

- New chassis design enable use of an interactive on screen control.
- The TELETEXT SYSTEM has a built-in FASTEXT (UK system), TOP (German system) and WST (world standard system) system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.

#### 2.2 21-pin Euro connector (SCART) : EXT-1/EXT-2/EXT-3

Pin No.	Signal designation	Matching value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)	Not used
2	AUDIO R input	500mV(rms) (Nominal), High impedance	Used (R1)	Used (R2)	Used (R3)
3	AUDIO L output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)	Not used
4	AUDIO GND		Used	Used	Used
5	GND (B)		Used	Used	Used
6	AUDIO L input	500mV(rms) (Nominal), High impedance	Used (L1)	Used (L2)	Used (L3)
7	B input	700mV <sub>(B-W)</sub> , 75Ω	Used	Used	Not used
8	FUNCTION SW (SLOW SW)	Low : 0V-3V High : 8V-12V, High impedance	Used	Used	Used
9	GND (G)		Used	Used	Used
10	SCL / T-V LINK		Not used	Used (SCL2 / TV-LINK)	Not used
11	G input	700mV <sub>(B-W)</sub> , 75Ω	Used	Used	Not used
12	SDA		Not used	Used (SDA2)	Not used
13	GND (R)		Used	Used	Used
14	GND (YS)		Used	Not used	Not used
15	R / C input	R : 700mV <sub>(B-W)</sub> , 75Ω C : 300mV <sub>(P-P)</sub> , 75Ω	Used (R)	Used (C2/R)	Used (C3)
16	Ys input (FAST SW)	Low : 0V-0.4V, High : 1V-3V, 75Ω	Used	Used	Not used
17	GND (VIDEO output)		Used	Used	Used
18	GND (VIDEO input)		Used	Used	Used
19	VIDEO output	1V <sub>(P-P)</sub> (Negative sync), 75Ω	Used (TV OUT)	Used (LINE OUT)	Not used
20	VIDEO / Y input	1V <sub>(P-P)</sub> (Negative sync), 75Ω	Used	Used	Used
21	COMMON GND		Used	Used	Used

(P-P= Peak to Peak, B-W= Blanking to white peak)



#### 2.3 MAIN DIFFERENCE LIST

Item	AV-28H4BU	AV-28H4SU	AV-28H40SU	AV-28H77SK
Dimensions ( W × H × D )	76.2cm × 52.8cm × 49.3cm	←	85.4cm × 50.8cm × 49.0cm	←
Mass	39.0kg	←	←	←
Cabinet colour	Black	Silver	←	←
Power cord	EU type(2-pin)	←	←	UK type(3-pin)
Colour system	PAL, SECAM	←	←	PAL
RF system	CCIR (B/G, D/K, I, L)	←	←	CCIR (I)

Item	AV-32H4BU	AV-32H4SU	AV-32H40SU	AV-32H47SU	AV-32H77SK
Dimensions ( W × H × D )	86.4cm × 58.7cm × 55.0cm	←	94.6cm × 56.1cm × 54.7cm	94.8cm × 56.2cm × 55.0cm	94.6cm × 56.1cm × 54.7cm
Mass	53.0kg	←	←	52.5kg	53.0kg
Cabinet colour	Black	Silver	←	←	←
Power cord	EU type(2-pin)	←	←	←	UK type(3-pin)
Colour system	PAL, SECAM	←	←	←	PAL
RF system	CCIR (B/G, D/K, I, L)	←	←	←	CCIR (I)

## 2.4 TECHNICAL INFORMATION

### 2.4.1 MAIN MI-COM (CPU) PIN FUNCTION

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	TCK	I	Not used	65	D2	I/O	Data bit for PP-RAM/SD-RAM
2	TMS	I	Not used	66	D12	I/O	Data bit for PP-RAM/SD-RAM
3	TDI	I	Not used	67	D10	I/O	Data bit for PP-RAM/SD-RAM
4	TDO	O	Not used	68	VSS33	--	GND
5	P2.8	I	Remote control	69	VDD33	i	3.3V
6	P2.9	I	Key scan for front control CH+(On: L)	70	D4	I/O	Data bit for PP-RAM/SD-RAM
7	P2.10	I	Key scan for front control CH- (On: L)	71	D3	I/O	Data bit for PP-RAM/SD-RAM
8	P2.11	I	Key scan for front control MENU (On: L)	72	D11	I/O	Data bit for PP-RAM/SD-RAM
9	P2.12	I	Receive data for TV_LINK	73	RSTIN	I	Reset for main CPU
10	P2.13	O	Power on /off control (ON: L)	74	P3.0	I/O	Data for inter IC control bus
11	P2.14	I	X-ray HB LB EW correction Protection detection (Normal: H)	75	P3.1	I/O	Data for inter IC control bus
12	P2.15	I	Main power detection (Normal: H)	76	P3.2	I	Remote control
13	VSS33	--	GND	77	P3.3	O	Power indication control (On: L)
14	VDD33	i	3.3V	78	P3.4	O	Audio muting (Muting: H)
15	P4.5/CS3	O	Output data for TV_LINK	79	P3.5	O	Audio muting (Muting: H)
16	P4.4/A20	O	Address bit for PP-RAM/SD-RAM	80	P3.6	O	Not used
17	P4.3/A19	O	Address bit for PP-RAM/SD-RAM	81	P3.7	O	Not used
18	P4.2/A18	O	Address bit for PP-RAM/SD-RAM	82	P3.8	I/O	Not used
19	P4.1/A17	O	Address bit for PP-RAM/SD-RAM	83	P3.9	I/O	Not used
20	VSS25	--	GND	84	VSS33	--	GND
21	VDD25	I	2.5V	85	VDD33	I	3.3V
22	P4.0/A16	O	Address bit for PP-RAM/SD-RAM	86	VSS25	--	GND
23	A8	O	Address bit for PP-RAM/SD-RAM	87	VDD25	I	2.5V
24	A7	O	Address bit for PP-RAM/SD-RAM	88	TXD0	I/O	Not used
25	A9	O	Address bit for PP-RAM/SD-RAM	89	RXD0	I/O	Not used
26	A6	O	Address bit for PP-RAM/SD-RAM	90	P3.12	O	Not used
27	A5	O	Address bit for PP-RAM/SD-RAM	91	P3.13	O	Not used
28	A10	O	Address bit for PP-RAM/SD-RAM	92	P3.15	O	Not used
29	A11	O	Address bit for PP-RAM/SD-RAM	93	P5.14	I	RGB input of EXT-2 active
30	A12	O	Address bit for PP-RAM/SD-RAM	94	P5.15	I	Headphone connection detection (Connect: H)
31	VSS33	--	GND	95	TRIG_IN	--	Not used
32	VDD33	i	3.3V	96	TRIG_OUT	--	Not used
33	A4	O	Address bit for PP-RAM/SD-RAM	97	P6.2	O	Notifies bus free state (Stop mode: H)
34	A3	O	Address bit for PP-RAM/SD-RAM	98	P6.3	O	Clock for inter IC control bus
35	A2	O	Address bit for PP-RAM/SD-RAM	99	P6.4	I/O	Data for inter IC control bus
36	A1	O	Address bit for PP-RAM/SD-RAM	100	P6.5	O	MSP reset (Reset: H)
37	A0	O	Address bit for PP-RAM/SD-RAM	101	P6.6	--	Not used
38	A13	O	Address bit for PP-RAM/SD-RAM	102	VSYNC	I	Vertical sync
39	A14/RAS	O	Row address strobe for SD-RAM access	103	HSYNC	I	Horizontal sync
40	A15/CAS	O	Column address strobe for SD-RAM access	104	COR/RSTOUT	O	Output for contrast reduction
41	VSS33	--	GND	105	BLANK/CORBLA	O	Ys for OSD Teletext (blanking)
42	VDD33	I	3.3V	106	VDD33	I	3.3V
43	MEMCLK	O	Clock for SD-RAM	107	VSS33	--	GND
44	CSSDRAM	O	Chip select signal for SD-RAM device	108	XTAL1	I	System clock (4MHz)
45	CLKEN	O	Enable for memory clock	109	XTAL2	O	System clock (4MHz)
46	CSROM	O	Chip select signal for PP-ROM device	110	VSSA	--	GND
47	RD	O	External memory read strobe for PP-ROM	111	VDDA	I	2.5V
48	UDQM	O	Write disable for high byte	112	R	O	Red for OSD / Teletext
49	LDQM	O	Write disable for low byte	113	G	O	Green for OSD / Teletext
50	WR	O	Memory write strobe	114	B	O	Blue for OSD / Teletext
51	D15	I/O	Data bit for PP-RAM/SD-RAM	115	VSSA	--	GND
52	VSS33	--	GND	116	VDDA	--	2.5V
53	VDD33	I	3.3V	117	CVBS2	I	Composite video for WSS
54	D7	I/O	Data bit for PP-RAM/SD-RAM	118	VSSA	--	GND
55	D0	I/O	Data bit for PP-RAM/SD-RAM	119	VDDA	I	2.5V
56	D14	I/O	Data bit for PP-RAM/SD-RAM	120	CVBS1B	I	Ground for CVBS1A
57	D8	I/O	Data bit for PP-RAM/SD-RAM	121	CVBS1A	I	Composite video for Teletext decoder
58	D6	I/O	Data bit for PP-RAM/SD-RAM	122	VSSA	--	GND
59	D1	I/O	Data bit for PP-RAM/SD-RAM	123	VDDA	I	2.5V
60	VSS33	--	GND	124	P5.0	I	AFT voltage for tuner
61	VDD33	I	3.3V	125	P5.1	--	Not used
62	D13	I/O	Data bit for PP-RAM/SD-RAM	126	P5.2	I	AGC voltage for tuner
63	D9	I/O	Data bit for PP-RAM/SD-RAM	127	P5.3	--	Not used
64	D5	I/O	Data bit for PP-RAM/SD-RAM	128	TMODE	I	Test mode

## SECTION 3 DISASSEMBLY

### 3.1 DISASSEMBLY PROCEDURE [AV-28H4BU, AV-28H4SU, AV-32H4BU, AV-32H4SU]

#### 3.1.1 REMOVING THE REAR COVER

- (1) Unplug the power cord.
- (2) Remove the 13 screws **[A]** as shown in the Fig. 3.
- (3) Withdraw the REAR COVER toward you.

#### 3.1.2 REMOVING THE SIDE CONTROL JACK ASS'Y

- Remove the REAR COVER.
  - (1) Remove the 1 screw **[B]** as shown in the Fig.3.
  - (2) Slightly shift the SIDE CONTROL JACK ASS'Y to rear side and remove the 2 claws under the SIDE CONTROL JACK ASS'Y.
  - (3) Disconnect the connector **[CN810F]** and **[CN810K]** as shown Fig. 3.

#### 3.1.3 REMOVING THE SIDE CONTROL PWB

- Remove the REAR COVER.
- Remove the SIDE CONTROL JACK ASSY.
  - (1) Remove the 2 screws **[C]** as shown in Fig. 3.
  - (2) Remove the 2 claws **[D]** from back side of the SIDE CONTRL JACK ASS'Y as shown in Fig. 3.
  - (3) Pull out the SIDE CONTROL PWB.

#### 3.1.4 REMOVING THE CHASSIS

- Remove the REAR COVER.
  - (1) Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
  - (2) Withdraw the CHASSIS backward.  
(If necessary, take off the wire clamp, connectors etc.)

#### 3.1.5 REMOVING THE POWER & DEF. PWB

- Remove the REAR COVER.
- Remove the CHASSIS.
  - (1) Remove the 3 screws **[E]** as shown in Fig. 3.
  - (2) Remove the POWER & DEF. PWB upper.  
(If necessary, take off the wire clamp, connectors etc.)

#### 3.1.6 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  - (1) Remove the 3 screws **[F]** as shown in the Fig. 3.
  - (2) Remove the 2 claws **[G]** under the CHASSIS as shown in Fig. 2.
  - (3) Remove the AV TERMINAL BOARD slightly in the direction of arrow **[H]** as shown in Fig. 2.

#### 3.1.7 REMOVING THE SPEAKER GRIL

- Remove the REAR COVER.
  - (1) Remove the 8 screws **[J]** as shown in the Fig. 3.
  - (2) Remove the SPEAKER GRIL.

#### 3.1.8 REMOVING THE SPEAKER

- Remove the REAR COVER.
- Remove the SPEAKER GRIL.
  - (1) Remove the 4 screws **[K]** as show in the Fig. 1.
  - (2) Remove the SPEAKER.
  - (3) Follow the same steps when removing the other hand SPEAKER.

#### 3.1.9 CHECKING THE PW BOARD

- To check the back side of the PW Board.
  - (1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
  - (2) Erect the CHASSIS vertically with the HVT side facing up so that you can easily check the back side of the PW board.

#### CAUTION:

- When erecting the CHASSIS, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE(BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

#### 3.1.10 WIRE CLAMPING AND CABLE TYING

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

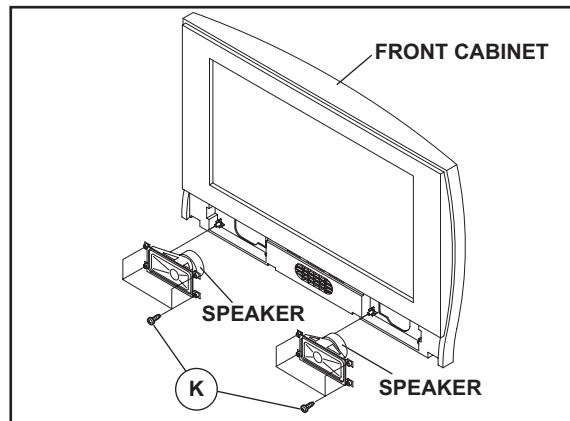


Fig.1

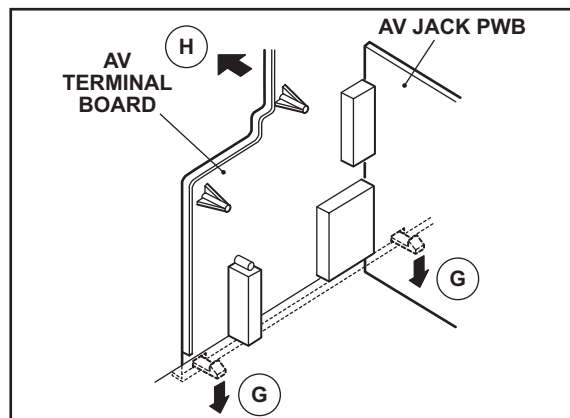
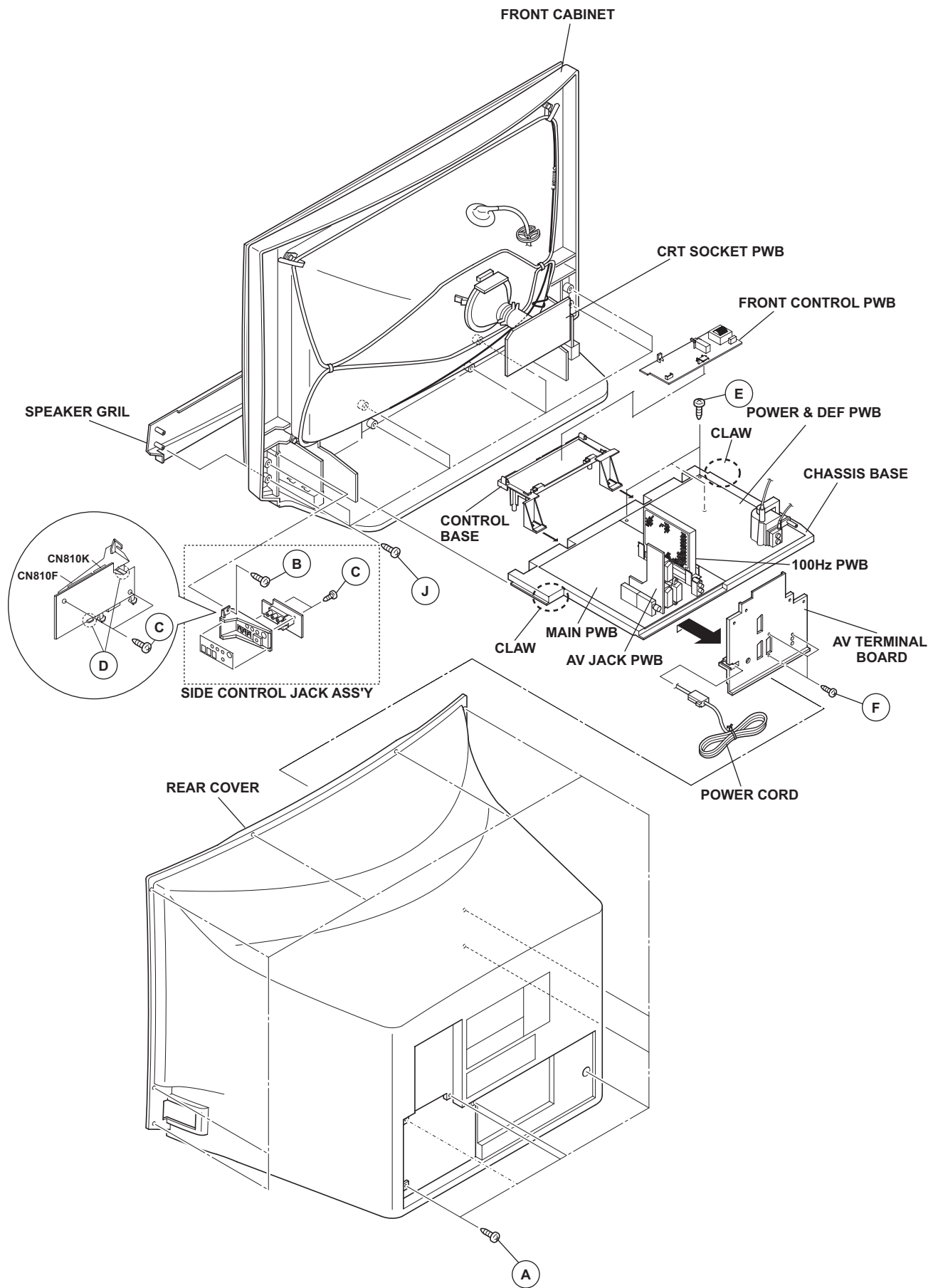


Fig.2





## 3.2 DISASSEMBLY PROCEDURE [AV-28H40SU, AV-28H77SK, AV-32H40SU, AV-32H47SU, AV-32H77SK]

### 3.2.1 REMOVING THE REAR COVER

- (1) Unplug the power cord.
- (2) Remove the 13 screws [A] as shown in the Fig. 3.
- (3) Withdraw the REAR COVER toward you.

### 3.2.2 REMOVING THE SIDE CONTROL JACK ASS'Y

- Remove the REAR COVER.
  - (1) Remove the 1 screw [B] as shown in the Fig. 3.
  - (2) While slightly raise the SIDE CONTROL JACK ASSY, remove the 2 claws under the SIDE CONTROL JACK ASSY.
  - (3) Disconnect the connector [F] and [K] as shown in Fig. 1.

### 3.2.3 REMOVING THE SIDE CONTROL PWB

- Remove the REAR COVER.
- Remove the SIDE CONTROL JACK ASSY.
  - (1) Remove the 3 claws [C] from back side of the SIDE CONTROL JACK ASSY as shown in Fig. 1.
  - (2) Pull out the SIDE CONTROL PWB.

### 3.2.4 REMOVING THE CHASSIS

- Remove the REAR COVER.
  - (1) Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
  - (2) Withdraw the CHASSIS backward.  
(If necessary, take off the wire clamp, connectors etc.)

### 3.2.5 REMOVING THE POWER & DEF. PWB

- Remove the REAR COVER.
- Remove the CHASSIS.
  - (1) Remove the 3 screws [D] as shown in Fig. 3.
  - (2) Remove the POWER & DEF. PWB upper.  
(If necessary, take off the wire clamp, connectors etc.)

### 3.2.6 REMOVING THE SIDE SPEAKER

- Remove the REAR COVER.
  - (1) Remove the 2 screws [E], and remove the SPEAKER ADAPTER as shown in Fig. 3.

#### NOTE :

- When removing the 2 screws [E] of the speaker holder remove the lower side screw first, and then remove the upper one.
- (2) Remove the 4 screws [F] attaching the SPEAKER.
  - (3) Follow the same steps when removing the other hand SPEAKER.

### 3.2.7 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  - (1) Remove the 3 screws [G] as shown in the Fig. 3.
  - (2) Remove the 2 claws [H] under the CHASSIS as shown in Fig. 2.
  - (3) Remove the AV TERMINAL BOARD slightly in the direction of arrow [I] as shown in Fig. 2.

### 3.2.8 CHECKING THE PW BOARD

- To check the back side of the PW Board.
  - (1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
  - (2) Erect the CHASSIS vertically so that you can easily check the back side of the PW Board.

#### CAUTION:

- When erecting the CHASSIS, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

### 3.2.9 WIRE CLAMPING AND CABLE TYING

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

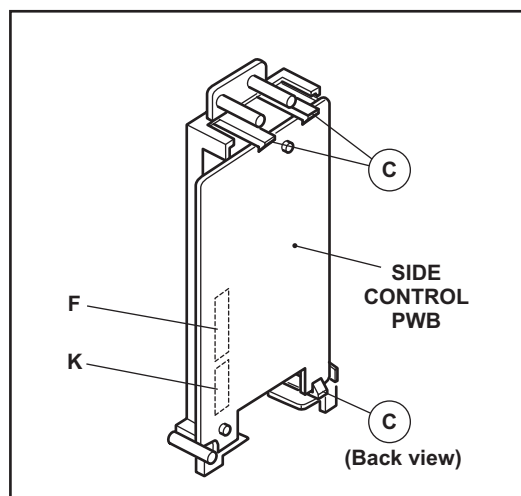


Fig.1

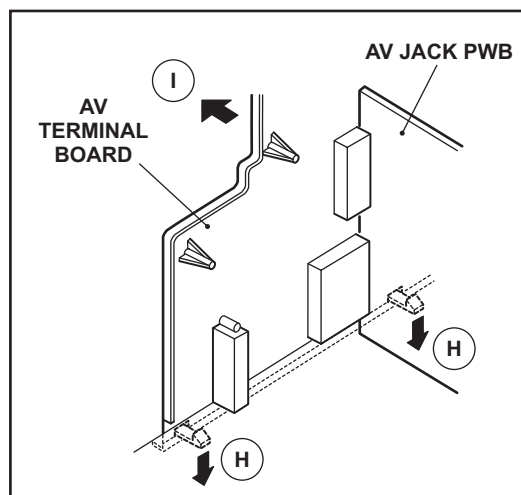


Fig.2



### 3.3 REMOVING THE CRT

#### NOTE:

- Replacement of the CRT should be performed by 2 or more persons.
  - After removing the REAR COVER, CHASSIS etc.,
- (1) Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 4).
  - (2) While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig. 4.
  - (3) Remove 4 screws marked by arrows with a box type screwdriver as shown in Fig. 5.

#### NOTE:

Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

- (4) After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig. 6.

#### NOTE:

- The CRT should be assembled according to the opposite sequence of its dismantling steps.
- The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

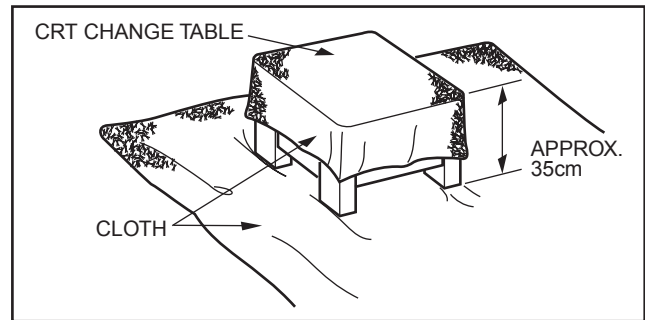


Fig.4

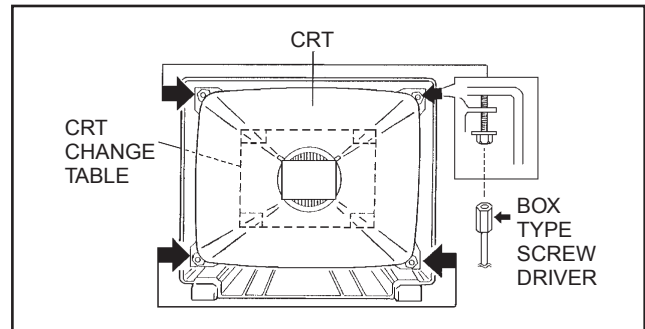


Fig.5

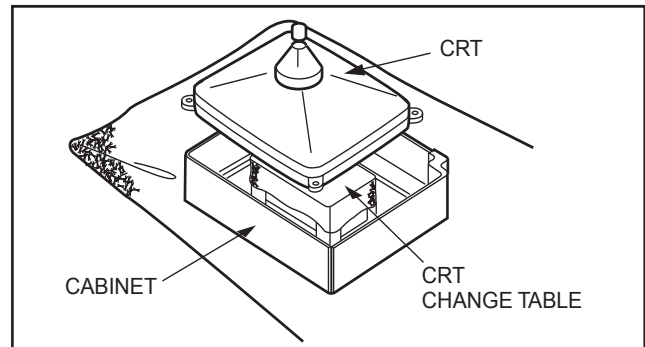


Fig.6

### COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismantling them, be sure to coat silicon grease for electrical insulation as shown in Fig.7. Wipe around the anode button with clean and dry cloth. (Fig.7) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not sticks to the anode button. (Fig.8)

#### Silicon grease product No. KS - 650N

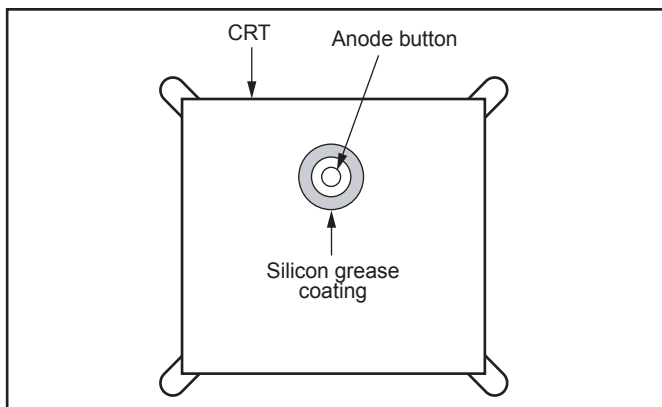


Fig.7

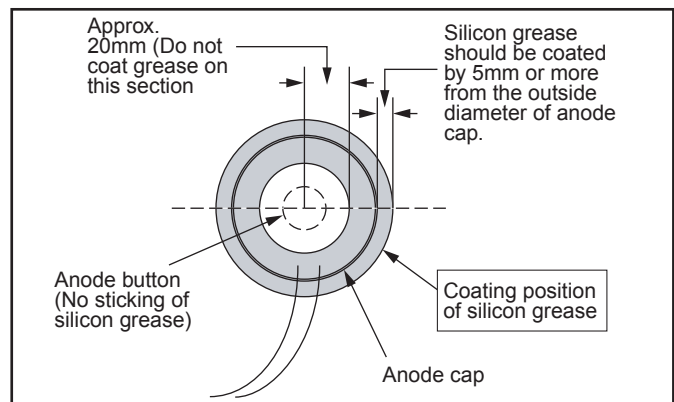


Fig.8

### 3.4 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

#### 3.4.1 MEMORY IC REPLACEMENT PROCEDURE

##### 1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

##### 2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

##### 3. Power on

Connect the power plug to the AC outlet and switch on the power.

##### 4. System constant check and setting

\* It must not adjust without signal.

- (1) Press the [INFORMATION] key and the [MUTING] key of the REMOTE CONTROL UNIT simultaneously.
- (2) The SERVICE MENU screen of Fig. 1 will be displayed.
- (3) While the SERVICE MENU is displayed, press the [INFORMATION] key and [MUTING] key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
- (4) Check the setting values of the SYSTEM CONSTANT SET. If the value is different, select the setting item with the [FUNCTION UP/DOWN] key, and set the correct value with the [FUNCTION +/-] key.
- (5) Press the [MENU] key to memorize the setting value.
- (6) Press the [INFORMATION] key twice, and return to the normal screen.

##### 5. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

##### 6. User settings

Check the user setting items according to the given in page later.

Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

##### 7. SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1).

Refer to the SERVICE ADJUSTMENT for setting.

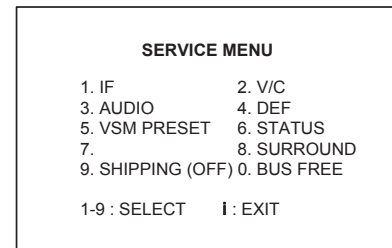


Fig.1



Fig.2

#### NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	
MUTING	
MENU	
FUNCTION UP/DOWN	
FUNCTION +/-	

#### 3.4.2 SYSTEM CONSTANT SETTING

Setting item	Setting content	Setting value			
		AV-28H4BU AV-28H4SU AV-28H40SU	AV-32H4BU AV-32H4SU AV-32H40SU AV-32H47SU	AV-28H77SK	AV-32H77SK
1.DESTINATION	EU / EK / EI	EU	←	EK	←
2.CRT TYPE	16:9 / 4:3	16:9	←	←	←
3.PICTURE TILT	YES / NO	NO	YES	NO	YES
4.POWER BASS	YES / NO	NO	←	←	←
5.SPATIAL SURR	YES / NO	NO	←	←	←
6.PIC&TEXT	YES / NO	NO	←	YES	←
7.PROGRESSIVE	YES / NO	NO	←	←	←

### 3.4.3 SETTINGS OF FACTORY SHIPMENT

#### 3.4.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	10

#### 3.4.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	10
ZOOM	PANORAMIC
HYPER SOUND	OFF

#### 3.4.3.3 REMOTE CONTROL MENU OPERATION

##### (1) PICTURE SETTING

Setting item	Setting position
PICTURE MODE	STANDARD
CONTRAST / BRIGHT SHARP / COLOUR / HUE	Refer to [5. VSM PRESET]
COLOUR TEMP	COOL

##### (2) PICTURE FEATURES

Setting item	Setting position
DIGITAL VNR	AUTO
DigiPure Pro	AUTO
COLOUR SYSTEM	TV : According to preset CH EXT : AUTO
4:3 AUTO ASPECT	PANORAMIC
PICTURE TILT [32" model]	MIDDLE

##### (3) SOUND SETTING

Setting item	Setting position
STEREO / I•II	Stereo sound
BASS	Centre
TREBLE	Centre
BALANCE	Centre
HYPER SOUND	OFF

##### (4) EXT SETTING

Setting item	Setting position
ID	BLANK
S-IN	BLANK
DUBBING	EXT-1 → EXT-2

##### (5) FEATURES

Setting item	Setting position
SLEEP TIMER	OFF
CHILD LOCK	Refer to OPERATION INSTRUCTIONS
BLUE BACK	ON
DECODER (EXT-2)	OFF

##### (6) INSTALL

Setting item	Setting position
LANGUAGE	ENGLISH
AUTO PROGRAM	TV channel automatically set
EDIT/MANUAL	PRESET CH only The others : BLANK

### 3.4.4 SERVICE MENU SETING ITEMS

Setting item	Setting value	Setting item	Setting value	
1. IF	1. VCO 2. ATT ON/OFF	5. VSM PRESET	BRIGHT/SOFT/STD	COOL/WARM/NOMAL
			1.CONT. 2.BRIGHT 3.SHARP 4.COLOUR 5.HUE	1.WDR R 2.WDR G 3.WDR B
2. V / C	1.RGB BLK 2.CUTOFF R 3.CUTOFF G 4.CUTOFF B 5.WDR R 6.WDR G 7.WDR B 8.BRIGHT 9.CONTRAST 10.COLOUR 11.HUE 12.SHARP 13.SC ADJ. 14.SIDE.P.L 15.SIDE.P.R	6.STATUS (Do not adjust)	1.SOFT 2.TELETEXT 3.ASPECT 4.PROTECT 5.FLASH	
3. AUDIO (Do not adjust)	1.ERR LIMIT 2.A2 ID THR 3.SYSTEM	9.SHIPPING (Do not adjust)	ON/OFF	
4. DEF.	1.V-SHIFT 2.V-SIZE 3.H-CENT 4.H-SIZE 5.TRAPEZ 6.EW-PIN 7.COR-UP 8.COR-LO 9.COR-UP-S 10.COR-LO-S 11.ANGLE 12.BOW 13.V-S.CR 14.V-LIN			

### 3.5 REPLACEMENT OF CHIP COMPONENT

#### 3.5.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

#### 3.5.2 SOLDERING IRON

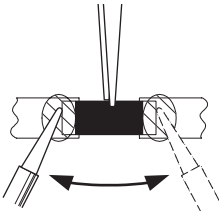
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.5.3 REPLACEMENT STEPS

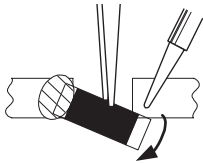
##### 1. How to remove Chip parts

###### [Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

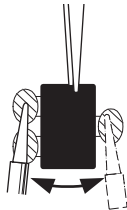


###### [Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



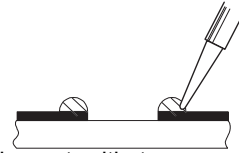
#### NOTE :

After removing the part, remove remaining solder from the pattern.

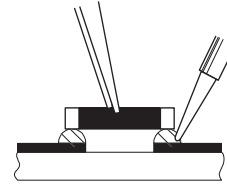
##### 2. How to install Chip parts

###### [Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

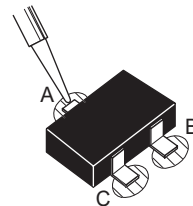


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

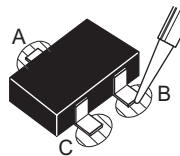


###### [Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.





## SECTION 4 ADJUSTMENT

### 4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

### 4.2 PRESET SETTING BEFORE ADJUSTMENT

Unless otherwise specified in the adjustment items, preset the following functions with the **REMOTE CONTROL UNIT**.

Item	Preset value
PICTURE MODE	STD
CONTRAST / BRIGHTSHARP / COLOUR / HUE	Centre
COLOUR TEMP	NORMAL
DIGITAL VNR	AUTO
BASS / TREBLE / BALANCE	Centre
HYPER SOUND	OFF
ZOOM	FULL
SLEEP TIMER	OFF

### 4.3 MEASURING INSTRUMENT AND FIXTURES

- (1) DC voltmeter (or digital voltmeter)
- (2) Oscilloscope
- (3) Signal generator (Pattern generator)  
[PAL / SECAM / NTSC]
- (4) Remote control unit

### 4.4 ADJUSTMENT ITEMS

#### ■ CHECK ITEM

- B1 POWERSUPPLY check
- HIGH VOLTAGE check
- IF VCO check

#### ■ FOCUS

- FOCUS adjustment

#### ■ DEFLECTION CIRCUIT

- V.POSITION adjustment
- V.SIZE adjustment
- H. POSITION adjustment
- H.SIZE adjustment
- SIDE-PIN adjustment
- TRAPEZIUM adjustment
- CORNER adjustment
- ANGLE adjustment
- BOW adjustment
- V.S-SHAPE CORRECTION & V.LINEARITY adjustment

#### ■ VIDEO CIRCUIT

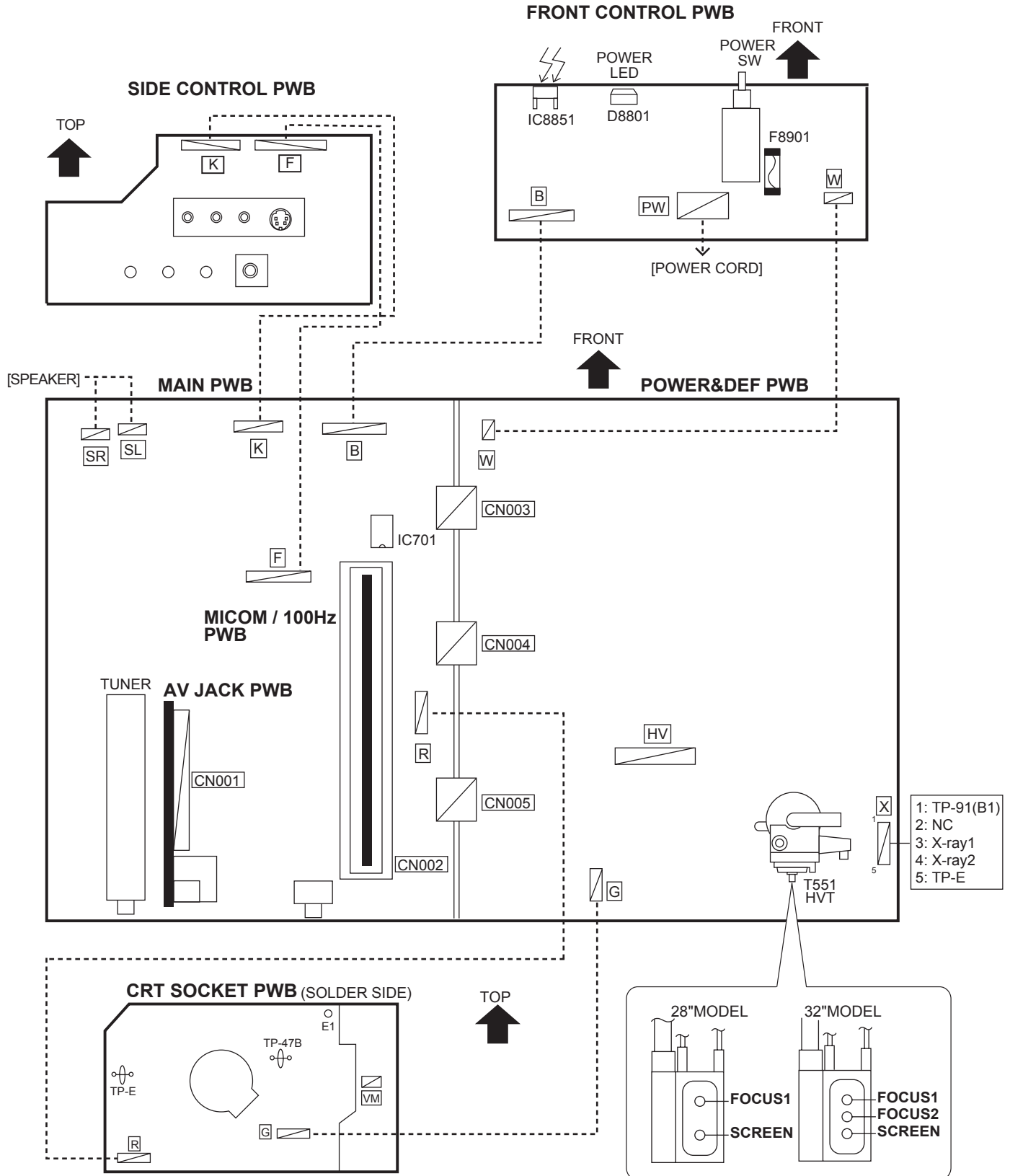
- WHITE BALANCE adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOUR I adjustment
- SUB COLOUR II adjustment
- SUB HUE I adjustment
- SUB HUE II adjustment

#### ■ VSM PRESET SETTING

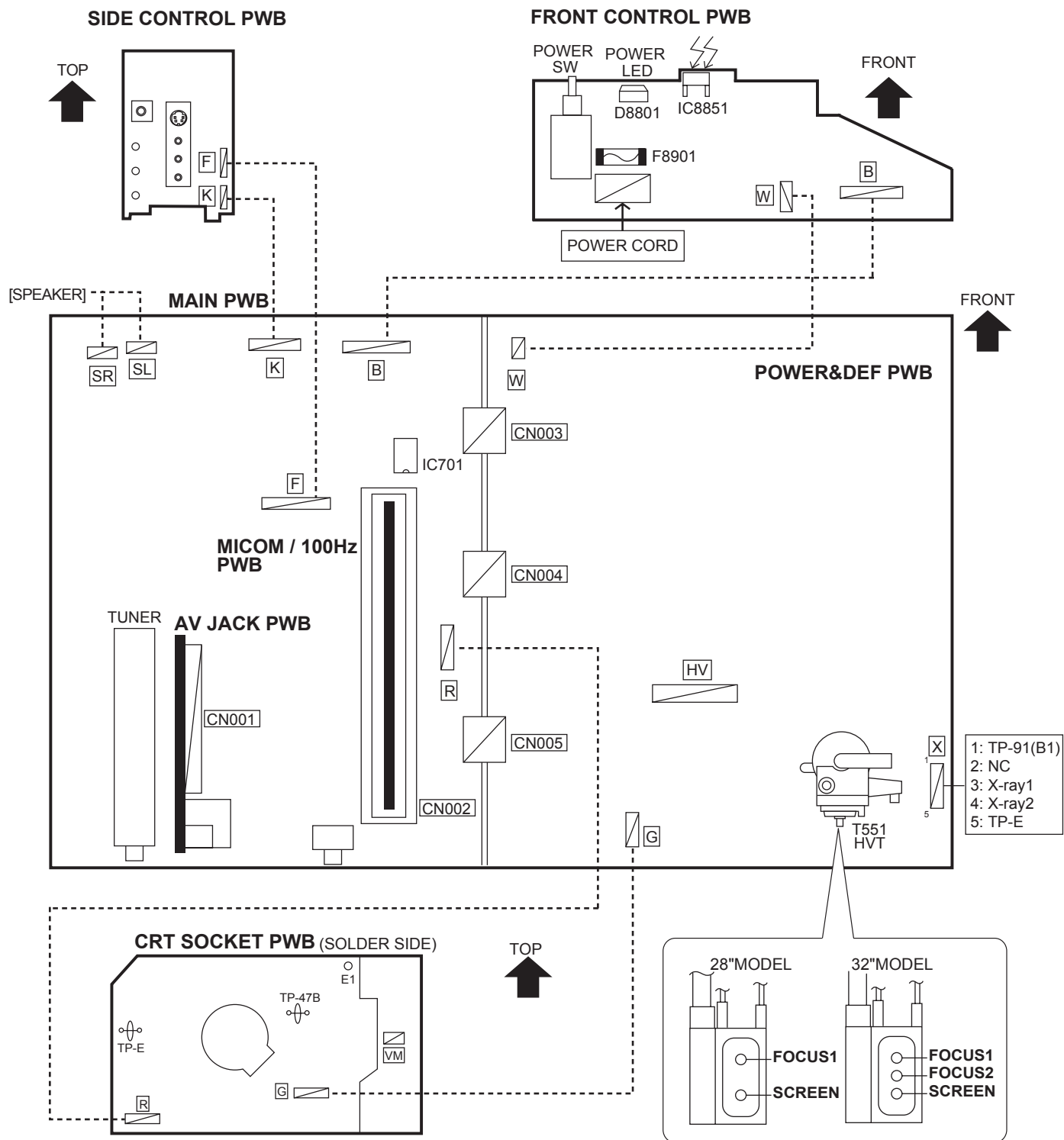
- VSM PRESET setting

## 4.5 ADJUSTMENT LOCATIONS

### 4.5.1 AV-28H4BU, AV-28H4SU, AV-32H4BU, AV-32H4SU



#### 4.5.2 AV-28H40SU, AV-28H77SK, AV-32H40SU, AV-32H47SU, AV-32H77SK



## 4.6 BASIC OPERATION OF SERVICE MENU

### 4.6.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

### 4.6.2 SERVICE MENU ITEMS

With the SERVICE MENU, various adjustments can be made, and they are broadly classified in the following items of settings.

1.IF	This mode adjusts the setting values of the IF circuit.
2.V/C	This mode adjusts the setting values of the VIDEO circuit.
3.AUDIO	This mode adjusts the setting values of the MULTI-SOUND circuit. <b>[Do not adjust]</b>
4.DEF	This mode adjusts the setting values of the DEFLECTION circuit.
5.VSM PRESET	This mode adjusts the setting values of COOL, NORMAL and WARM. (VSM : Video Status Memory)
6.STATUS	This mode is shows the monitor of SOFT, TELETEXT, ASPECT, PROTECT, FLASH. <b>[Do not adjust]</b>
9.SHIPPING (OFF)	This mode is set at shipping. <b>[Do not adjust]</b>
0.BUS FREE	This mode is set at bus free. <b>[Do not adjust]</b>

### 4.6.3 BASIC OPERATION OF SERVICE MENU

#### (1) HOW TO ENTER SERVICE MENU

Press the [INFORMATION] key and the [MUTING] key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig.1 will be displayed.

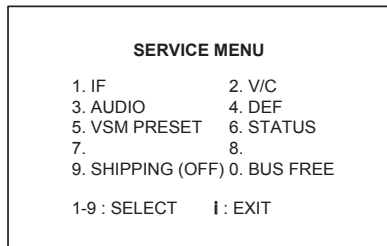


Fig.1

#### (2) SELECTION OF SUB MENU SCREEN

Press one of [1] - [5] keys of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See "SERVICE MENU FLOW CHART"), form the SERVICE MENU.

NAME OF REMOTE CONTROL KEY	
Names of key	Key
INFORMATION	
MUTING	
MENU	
FUNCTION UP/DOWN	
FUNCTION +/-	

Fig.2

#### (3) METHOD OF SETTING

##### ● 1.IF

[1.VCO] : It must not adjust without signal.

Key	Function
(1) [1]	Select 1.IF
(2) [1]	Select 1.VCO (CW) Make sure that the arrow position between the ABOVE REF and BELOW REF.
(3) [INFORMATION]	Return to the SERVICE MENU screen.

##### ● 2.V/C, 4.DEF AND 5.VSM PRESET.

Key	Function
(1) [2] / [4] / [5]	Select one from 2.V/C, 4.DEF and 5.VSM PRESET.
(2) [FUNCTION UP / DOWN (▲ / ▼)]	Select setting items.
(3) [FUNCTION +/- (◀ / ▶)]	Set (adjust) the setting values of the setting items.
(4) [OK]	Memorize the setting value.(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key if you do, the values will not be stored in memory.)
(5) [INFORMATION]	Return to the SERVICE MENU screen.

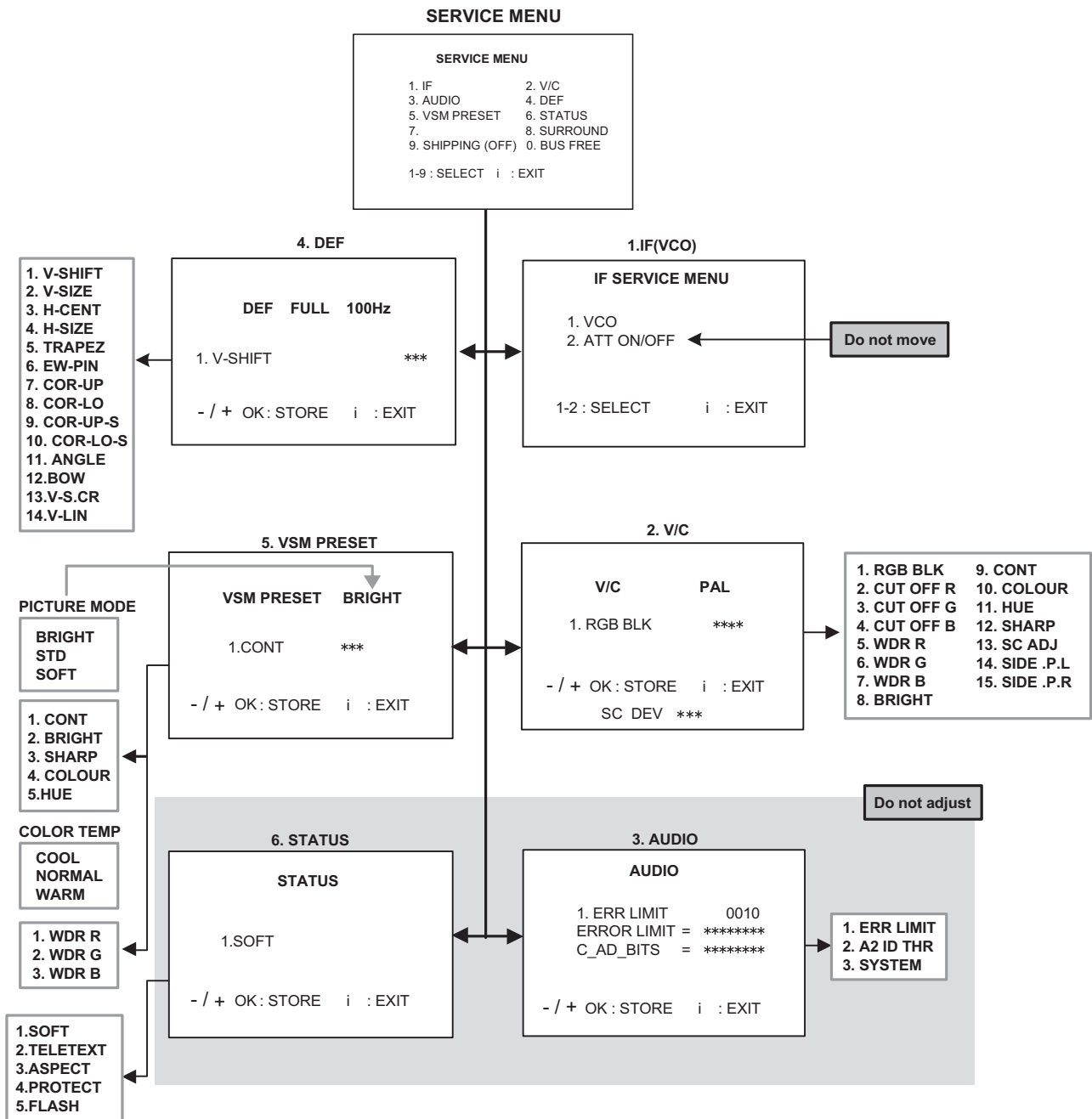
##### ● 3.AUDIO, 6.STATUS, and 9.SHIPPING.

**[Do not setting]**

#### (4) RELEASE OF SERVICE MENU

After completing the setting, return to the SERVICE MENU, then again press the [INFORMATION] key.

#### 4.6.4 SERVICE MENU FLOW CHART



#### 4.7 INITIAL SETTING VALUE OF SERVICE MENU

- (1) Adjustment of the SERVICE MENU is made on the basis of the initial setting values. However, the new setting values which displays on the screen in its optimum condition may differ from the initial setting value.
- (2) Do not change the initial setting values of the items not listed in "ADJUSTMENTS PROCEDURE".
- (3) "---" is impossible to adjust or not requirement to adjustment.

##### 4.7.1 [2. V/C]

Setting item	Variable range	Initial setting value		
		PAL	SECAM	NTSC
1.RGB BLK	---	---	---	---
2.CUTOFF R	0000~0255	0100	0100	0100
3.CUTOFF G	0000~0255	0132	0132	0132
4.CUTOFF B	0000~0255	0124	0124	0124
5.WDR R	0000~0255	0165	0165	0165
6.WDR G	0000~0255	0135	0135	0135
7.WDR B	0000~0255	0150	0150	0150
8.BRIGHT	-128~0127	-030	-030	-030
9.CONTRAST	0000~0063	0040	0040	0040

Setting item	Variable range	Initial setting value			
		PAL	SECAM	NTSC 3.58	NTSC 4.43
10.COLOUR	0000~0063	0036	0031	0025	0000
11.HUE	-064~0063	---	---	0002	0000

Setting item	Variable range	Initial setting value					
		PAL		SECAM		NTSC	
		TV	EXT	TV	EXT	TV	EXT
12.SHARP	-015~0015	-002	0000	-002	0000	-002	0000

Setting item	Variable range	Initial setting value		
		PAL	SECAM	NTSC
13.SC ADJ.	0000~0063	0018	---	---

Setting item	Variable range	Initial setting value					
		PAL		SECAM		NTSC	
		REGULAR	14:9 ZOOM	REGULAR	14:9 ZOOM	REGULAR	14:9 ZOOM
14.SIDE .P.L	0000~1295	0322	0284	0322	0284	0328	0290
15.SIDE .P.R	0000~1295	1096	1137	1096	1137	1108	1150

##### 4.7.2 [3. AUDIO] [Do not adjust]

Setting item	Variable range	Fixed value
1. ERR LIMIT	0000~00FF	0010
2. A2 ID THR	0000~00FF	0019
3. SYSTEM	---	---

#### 4.7.3 [5. VSM PRESET]

Item	Variable range	Setting value					
		PICTURE MODE			COLOUR TEMP.		
		BRIGHT	STANDARD	SOFT	COOL	NORMAL	WARM
1.CONT	-16~+16	+7	0	-3	---	---	---
2.BRIGHT	-16~+16	0	0	0	---	---	---
3.SHARP	-16~+16	0	0	-2	---	---	---
4.COLOUR	-16~+16	0	0	0	---	---	---
5.HUE	-16~+16	0	0	0	---	---	---
1.WDR R	-64~+64	---	---	---	-15	0	4
2.WDR G	-64~+64	---	---	---	-9	0	0
3.WDR B	-64~+64	---	---	---	0	0	0

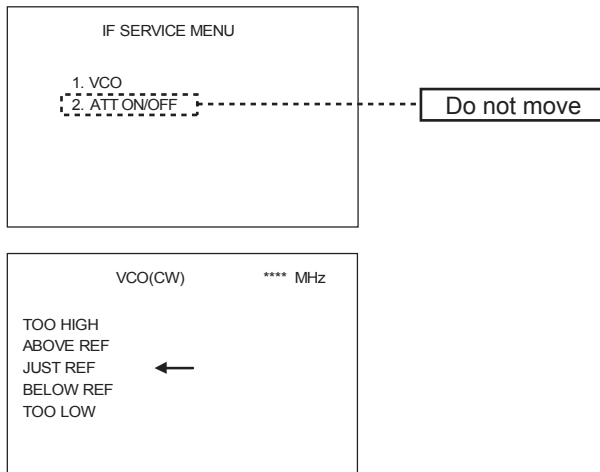
#### 4.7.4 [4. DEFLECTION]

Setting item	Variable range	Initial setting value					
		FULL		PANORAMIC		SUBTITLE	
		100Hz i	120Hz i	100Hz i	120Hz i	100Hz i	120Hz i
1. V-SHIFT	-032~0031	0000	0000	0000	0000	0005	0000
2. V-SIZE	-064~0063	-033	0000	0005	0000	0017	0000
3. H-CENT	-128~0127	-014	0000	0000	0000	0000	0000
4. H-SIZE	-128~0127	0000	0000	0000	0000	0000	0000
5. TRAPEZ	-064~0064	-011	0000	0000	0000	0000	0000
6. EW-PIN	-128~0127	-035	0000	0000	0000	0000	0000
7. COR-UP	-064~0064	0000	0000	0000	0000	0000	0000
8. COR-LO	-064~0064	0000	0000	0000	0000	0010	0000
9. COR-UP-S	-064~0064	0000	0000	0000	0000	0000	0000
10. COR-LO-S	-064~0064	0000	0000	0000	0000	0000	0000
11.ANGLE	-128~0127	0000	0000	0000	0000	0000	0000
12.BOW	-128~0127	0000	0000	0000	0000	0000	0000
13.V-S.CR	-064~0063	0003	0000	0005	0000	0008	0000
14.V-LIN	-064~0063	0000	0000	-004	0000	-008	0000

## 4.8 ADJUSTMENTS PROCEDURE

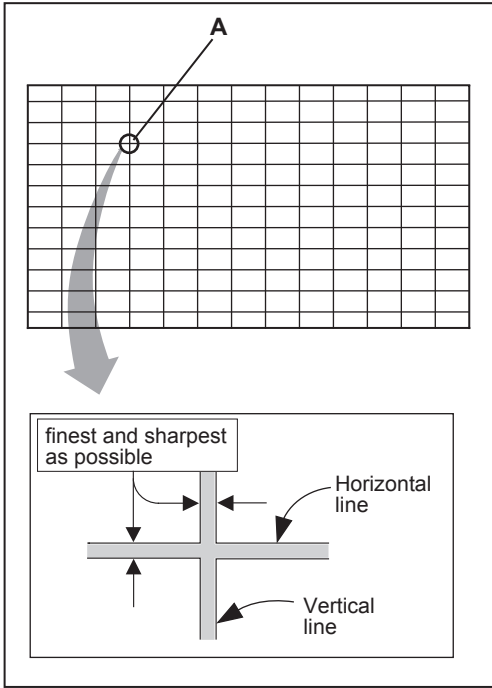
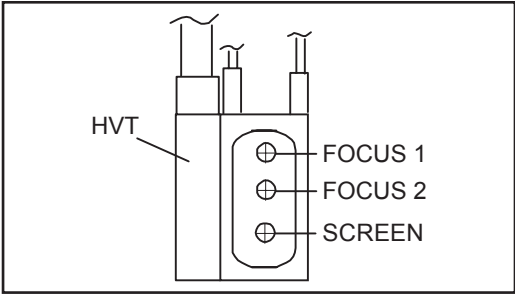
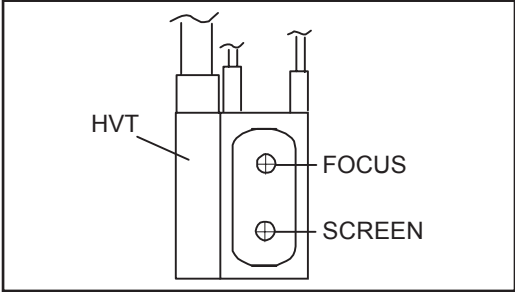
### 4.8.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
<b>B1 POWER SUPPLY check</b>	DC voltmeter Remote control unit	X connector 1-pin:TP-91(B1) 5-pin:TP-E [POWER DEF PWB]	[2.V/C] 1.RGB BLK	(1) Receive the any broadcast. (2) Select 2. V/C from the SERVICE MENU. (3) Select < 1. RGB BLK >. (4) Press the [FUNCTION + (▶)] key to find the cut off screen (Black screen). (5) Connect a DC voltmeter to TP-91(B1) and TP-E. (6) Make sure that the voltage is DC139V ± 2.0V. (7) Press the [FUNCTION - (◀)] key to return to service menu.
<b>HIGH VOLTAGE check</b>	HV voltmeter Remote control unit	CRT anode Chassis GND	[2.V/C] 1.RGB BLK	(1) Receive the any broadcast. (2) Select 2. V/C from the SERVICE MENU. (3) Select < 1. RGB BLK >. (4) Press the [FUNCTION + (▶)] key to find the cut off screen (Black screen). (5) Connect a HV voltmeter to CRT ANODE and chassis GND. (A ground side is connected previously) (6) Make sure that the voltage is DC 31.0kV (+1kV / -1.5kV). (7) Press the [FUNCTION - (◀)] key to return to service menu.  <b>NOTE:</b> When removing a prove, an anode side is removed previously.
<b>IF VCO check</b>	Remote control unit		[1.IF] 1.VCO	<ul style="list-style-type: none"> <li>Under normal conditions, no adjustment is required.</li> <li>It must not adjust without broadcast signal.</li> </ul> (1) Receive the any broadcast. (2) Select 1.IF from the SERVICE MENU. (3) Select < 1.VCO >. (4) Check the ←(arrow) position between the ABOVE REF. and BELOW REF.





## 4.8.2 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
<b>FOCUS</b> [32" MODELS]	Signal generator		FOCUS 1 VR FOCUS 2 VR [In HVT]	<ol style="list-style-type: none"> <li>(1) Receive the crosshatch signal.</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) By turning the FOCUS 2 VR, adjust the picture so that the A part vertical line may become thinnest (Fig.1) .</li> <li>(4) By turning the FOCUS 1 VR, adjust the picture so that the A part horizontal line may become uniform at the line centre and its periphery (Fig.1) .</li> <li>(5) Make sure that when the screen is darkened, the lines remain in good focus.</li> </ol>
 <p>Fig.1</p>				
<b>FOCUS</b> [28" MODELS]	Signal generator		FOCUS VR [In HVT]	<ol style="list-style-type: none"> <li>(1) Receive the cross-hatch signal.</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) While looking at the screen, adjust the FOCUS VR to the vertical and horizontal lines will be clear and infine detail. (Fig.1)</li> <li>(4) Make sure that the picture is in focus even when the screen gets darkened.</li> </ol>
				

#### 4.8.3 DEFLECTION CIRCUIT

There are 3 aspect modes ( 1.FULL, 2.PANORAMIC, 3.SUBTITLE) of the adjustment.

Depending upon the kind of signals ( Vertical frequency 100Hz i / 60Hz p).

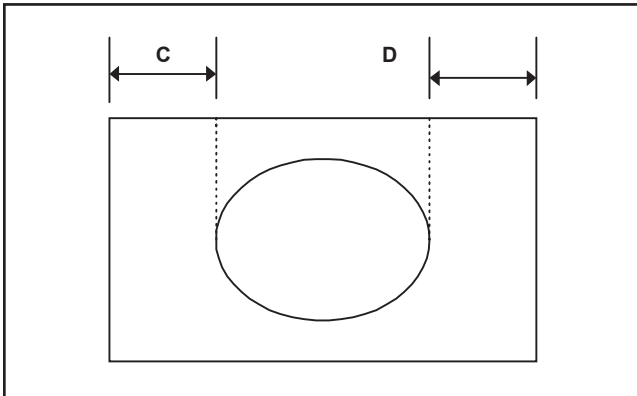
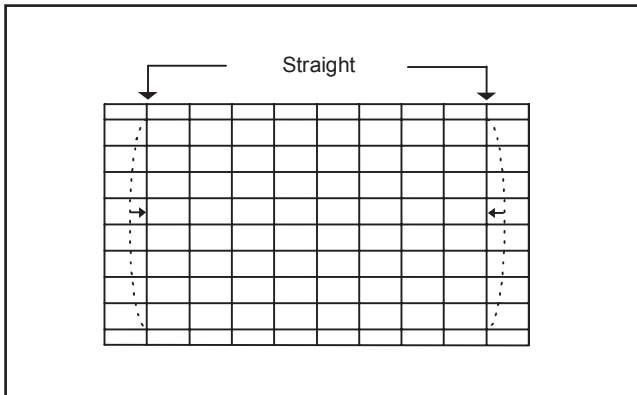
100Hz i is a signal that is output to a screen when a 50Hz signal is input to a television set. It is an interlace-scanned picture of 100Hz.

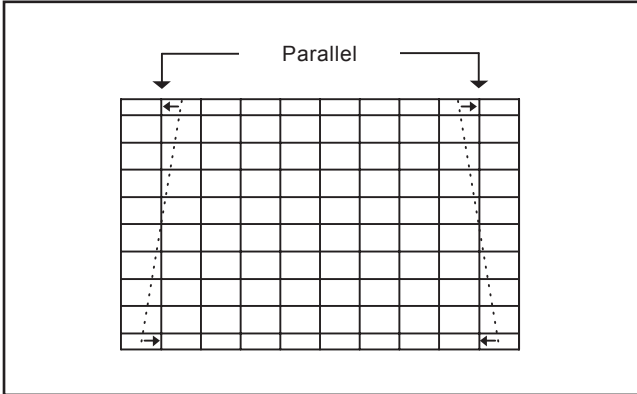
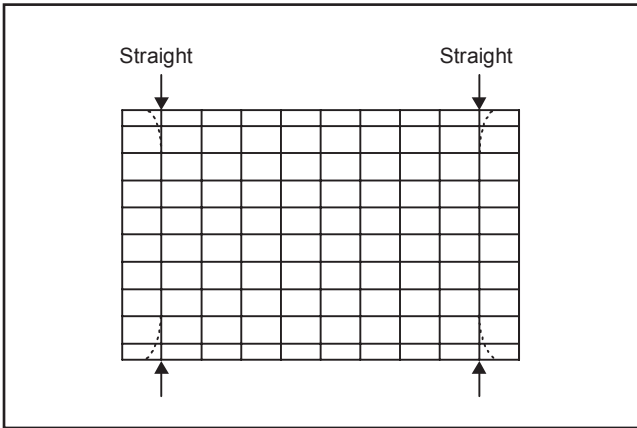
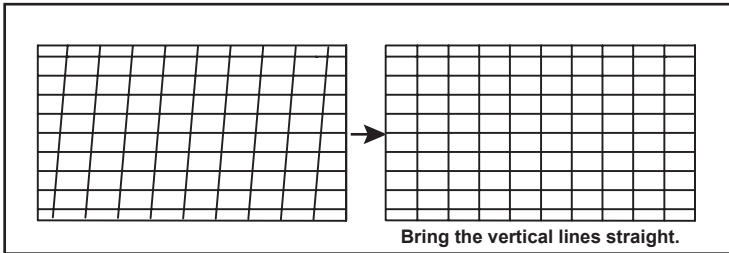
- When the 100Hz FULL mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- To switch aspect modes, use the [ZOOM] key of the remote controller.

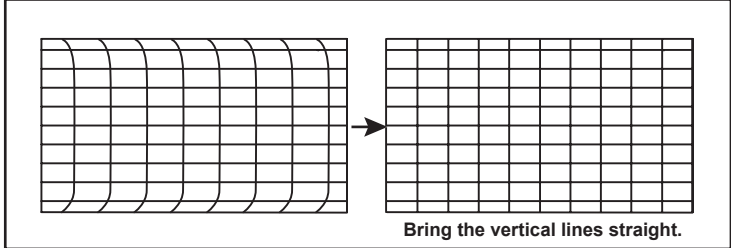
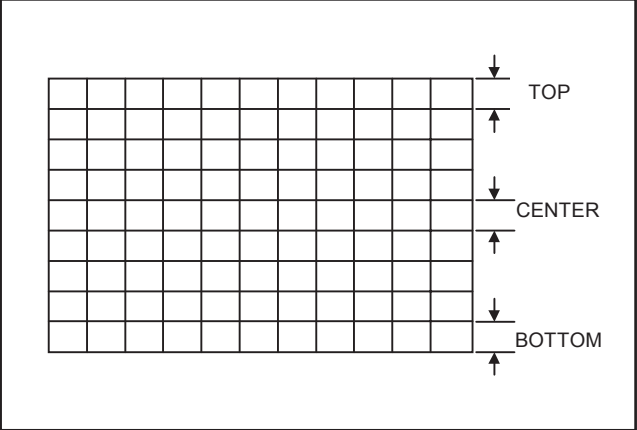
#### NOTE :

- Do not adjust PANORAMIC & SUBTITLE mode.
- At first the adjustment in 100Hz FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz (NTSC EXT mode) FULL mode. If the adjustment in 100Hz each aspect mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.

Item	Measuring instrument	Test point	Adjustment part	Description											
V. POSITION	Signal generator  Remote control unit		[4.DEF] 1.V- SHIFT	(1) Receive the circle pattern signal of vertical frequency 50Hz (PAL / SECAM). (2) Set the ZOOM mode to FULL. (3) Select 4.DEF from the SERVICE MENU. (4) Select < 1.V-SHIFT >. (5) Set the initial setting value of < 1.V-SHIFT >. (6) Adjust vertical position to make A = B. (7) Check the adjustment value above in other zoom mode. If it is a wrong adjustment, re-adjust in FULL mode and adjust by < 1.V-SHIFT >. (8) Press the [MENU] key and memorize the set value.											
V.SIZE	Signal generator  Remote control unit		[4.DEF] 2.V-SIZE	(1) Receive the cross-hatch signal. (2) Set the ZOOM mode to FULL. (3) Select 4.DEF from the SERVICE MENU. (4) Select < 2.V-SIZE >. (5) Set the initial setting value of < 2.V-SIZE >. (6) Adjust to make sure that the vertical screen size of the picture size is in the bellow table. (7) Make sure that the vertical screen size of the each ZOOM mode is in the below table. (8) Press the [MENU] key and memorize the set value. (9) Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below. (10) Press the [MENU] key and memorize the set value.											
<b>[SCREEN SIZE]</b>															
<table><tr><th>ZOOM MODE</th><th>FULL</th><th>PANORAMIC</th><th>SUBTITLE</th></tr><tr><td>SCREEN TOP</td><td>92%</td><td>87%</td><td>70%</td></tr><tr><td>SCREEN BOTTOM</td><td>92%</td><td>87%</td><td>83%</td></tr></table>				ZOOM MODE	FULL	PANORAMIC	SUBTITLE	SCREEN TOP	92%	87%	70%	SCREEN BOTTOM	92%	87%	83%
ZOOM MODE	FULL	PANORAMIC	SUBTITLE												
SCREEN TOP	92%	87%	70%												
SCREEN BOTTOM	92%	87%	83%												

Item	Measuring instrument	Test point	Adjustment part	Description								
H. POSITION	Signal generator		[4.DEF] 3.H-CENT	(1) Receive the circle pattern signal. (2) Set the ZOOM mode to FULL. (3) Select 4.DEF from the SERVICE MENU. (4) Select < 3.H-CENT >. (5) Set the initial setting value of < 3.H-CENT >. (6) Adjust horizontal position to make C=D. (7) Press the [MENU] key and memorize the set value.								
	Remote control unit											
												
H.SIZE	Signal generator		[4.DEF] 4.H-SIZE	(1) Receive the circle pattern signal. (2) Set the ZOOM mode to FULL. (3) Select 4.DEF from the SERVICE MENU. (4) Select < 4.H-SIZE >. (5) Set the initial setting value of < 4.H-SIZE >. (6) Adjust to make sure that the horizontal screen size of the picture size is in the bellow table. (7) Make sure that the horizontal screen size of the each ZOOM mode is in the below table. (8) Press the [MENU] key and memorize the set value.								
	Remote control unit											
<b>[SCREEN SIZE]</b>												
<table><tr><td>ZOOM MODE</td><td>FULL</td><td>PANORAMIC</td><td>SUBTITLE</td></tr><tr><td>H SIZE</td><td>92%</td><td>95%</td><td>92%</td></tr></table>					ZOOM MODE	FULL	PANORAMIC	SUBTITLE	H SIZE	92%	95%	92%
ZOOM MODE	FULL	PANORAMIC	SUBTITLE									
H SIZE	92%	95%	92%									
SIDE-PIN	Signal generator		[4.DEF] 6.EW-PIN	(1) Receive the cross-hatch signal. (2) Set the ZOOM mode to FULL. (3) Select 4.DEF from the SERVICE MENU. (4) Select < 6.EW-PIN >. (5) Set the initial setting value of < 6.EW-PIN >. (6) Adjust to make the 2nd vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight. (7) Press the [MENU] key and memorize the set value.								
	Remote control unit											
												

Item	Measuring instrument	Test point	Adjustment part	Description
TRAPEZIUM	Signal generator		[4.DEF] 5.TRAPEZ	<div>(1) Receive the cross-hatch signal.</div> <div>(2) Set the ZOOM mode to FULL.</div> <div>(3) Select 4.DEF from the SERVICE MENU.</div> <div>(4) Select &lt; 5.TRAPEZ &gt;.</div> <div>(5) Set the initial setting value of &lt; 5.TRAPEZ &gt;.</div> <div>(6) Adjust to bring the vertical lines at the right and left edges of the screen parallel.</div> <div>(7) Press the [MENU] key and memorize the set value.</div>
	Remote control unit			
<div></div>				
CORNER	Signal generator		[4.DEF] 7.COR-UP 8.COR-LO 9.COR-UP-S 10.COR-LO-S	<div>(1) Receive the cross-hatch signal.</div> <div>(2) Set the ZOOM mode to FULL.</div> <div>(3) Select 4.DEF from the SERVICE MENU.</div> <div>(4) Select &lt; 7.COR-UP &gt;.</div> <div>(5) Set the initial setting value of &lt; 7.COR-UP &gt;.</div> <div>(6) Adjust to bring the straight line at the upper corner.</div> <div>(7) Select &lt; 8.COR-LO &gt;.</div> <div>(8) Set the initial setting value of &lt; 8.COR-LO &gt;.</div> <div>(9) Adjust to bring the straight line at the low corner.</div> <div>(10) Press the [MENU] key and memorize the set value.</div> <div>(11) If the extreame upper &amp; lower corners are a little pin or barrel chose &lt; 9.COR-UP-S &gt; or &lt; 10. COR-LO-S &gt; and adjust.</div> <div>(12) Press the [MENU] key and memorize the set value.</div>
	Remote control unit			
<div></div>				
ANGLE	Signal generator		[4.DEF] 11. ANGLE	<div>• In case where there is a parallelogrammical distortion of images on the screen.</div> <div>(1) Receive the cross-hatch signal.</div> <div>(2) Set the ZOOM mode to FULL.</div> <div>(3) Select 4.DEF from the SERVICE MENU.</div> <div>(4) Select &lt; 11.ANGLE &gt;.</div> <div>(5) Set the initial setting value of &lt; 11. ANGLE &gt;.</div> <div>(6) Adjust to bring the vertical lines straight.</div> <div>(7) Press the [MENU] key and memorize the set value.</div>
	Remote control unit			
<div></div>				

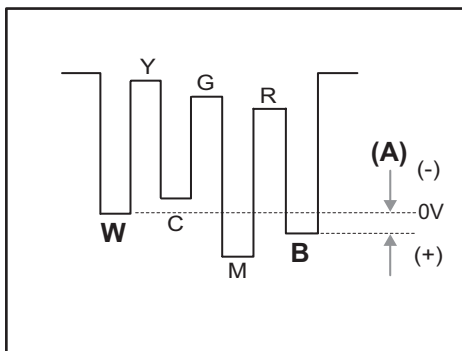
Item	Measuring instrument	Test point	Adjustment part	Description
<b>BOW</b>	Signal generator  Remote control unit		[4.DEF] 12.BOW	<ul style="list-style-type: none"> <li>In case where there is a bow-shaped distortion of images on the screen.               <ol style="list-style-type: none"> <li>Receive the cross-hatch signal.</li> <li>Set the ZOOM mode to FULL.</li> <li>Select 4.DEF from the SERVICE MENU.</li> <li>Select &lt; 12.BOW &gt;.</li> <li>Set the initial setting value of &lt; 12. BOW &gt;.</li> <li>Adjust to bring the vertical lines straight.</li> <li>Press the [MENU] key and memorize the set value.</li> </ol> </li> </ul>
				
<b>V.S-SHAPE CORRECTION &amp; V.LINEARITY</b>	Signal generator  Remote control unit		[4.DEF] 13.V-S.CR 14.V-LIN	<ul style="list-style-type: none"> <li>When the vertical linearity has been deteriorated remarkably, perform the following steps.               <ol style="list-style-type: none"> <li>Receive the cross-hatch signal.</li> <li>Set the ZOOM mode to FULL.</li> <li>Select 4.DEF from the SERVICE MENU.</li> <li>Select &lt; 14.V-LIN &gt;.</li> <li>Set the initial setting value of &lt; 14.V-LIN &gt;.</li> <li>Select &lt; 13.V-S.CR &gt;.</li> <li>Set the initial setting value of &lt; 13.V-S.CR &gt;.</li> <li>Adjust &lt; 14.V-LIN &gt; and &lt; 13.V-S.CR &gt; so that the spaces of each line on top, center and bottom become uniform.</li> <li>Press the [MENU] key and memorize the set value.</li> </ol> </li> </ul>
				

#### 4.8.4 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
<b>WHITE BALANCE</b>	Signal generator  Remote control unit		[2. V/C] 2.CUTOFF R 3.CUTOFF G 4.CUTOFF B 5.WDR R 6.WDR G 7.WDR B (Do not adjust)	<p>(1) Receive a black and white signal (colour off).  (2) Set the ZOOM mode to FULL.  (3) Set the PICTURE MODE to STD.  (4) Set the COLOUR TEMP to NORMAL.  (5) Select 2.V/C from the SERVICE MENU.  (6) Each select 2.CUTOFF R, 3.CUTOFF G, 4.CUTOFF B and adjust the screen until the black portion in the screen becomes black.  (7) Each select 5.WDR R, 6.WDR G and adjust the screen until the white portion in the screen becomes white.</p> <p><b>NOTE:</b>  Do not adjust 7. WDR B</p> <p>(8) Press the [MENU] key and memorize the set value.  (9) Change the contrast and brightness from low-light to high-light and check that the tracking of the white balance is good.</p>
<b>SUB BRIGHT</b>	Remote control unit		[2. V/C] 8. BRIGHT	<p>(1) Receive the any broadcast.  (2) Set the ZOOM mode to FULL.  (3) Set the PICTURE MODE to STD.  (4) Select 2.V/C from the SERVICE MENU.  (5) Select &lt; 8.BRIGHT &gt;.  (6) Set the initial setting value of &lt; 8.BRIGHT &gt;.  (7) If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness.  (8) Press the [MENU] key and memorize the set value.</p>
<b>SUB CONTRAST</b>	Remote control unit		[2. V/C] 9. CONT.	<p>(1) Receive the any broadcast.  (2) Set the ZOOM mode to FULL.  (3) Set the PICTURE MODE to STD.  (4) Select 2.V/C from the SERVICE MENU.  (5) Select &lt; 9.CONT &gt;.  (6) Set the initial setting value of &lt; 9.CONT &gt;.  (7) If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast.  (8) Press the [MENU] key and memorize the set value.</p>

Item	Measuring instrument	Test point	Adjustment part	Description
<b>SUB COLOUR-1</b>	Remote control unit		[2.V/C] 10.COLOUR (PAL/SECAM/NTSC)	<p><b>[Method of adjustment without measuring instrument]</b></p> <p><b>PAL COLOUR</b></p> <ol style="list-style-type: none"> <li>(1) Receive PAL broadcast.</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) Set the PICTURE MODE to STD.</li> <li>(4) Select 2.V/C from the SERVICE MENU.</li> <li>(5) Select &lt; 10.COLOUR &gt;.</li> <li>(6) Set the initial setting value of &lt; 10.COLOUR &gt;.</li> <li>(7) If the colour is not the best with the initial set value, make fine adjustment until you get the best colour.</li> <li>(8) Press the [MENU] key and memorize the set value.</li> </ol> <p><b>SECAM COLOUR</b></p> <ol style="list-style-type: none"> <li>(1) Receive the SECAM broadcast.</li> <li>(2) Make fine adjustment of SECAM COLOUR in the same manner as for above.</li> </ol> <p><b>NTSC 3.58 COLOUR</b></p> <ol style="list-style-type: none"> <li>(1) Input the NTSC 3.58MHz signal from the EXT terminal.</li> <li>(2) Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.</li> </ol> <p><b>NTSC 4.43 COLOUR</b></p> <ol style="list-style-type: none"> <li>(1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.</li> </ol>

Item	Measuring instrument	Test point	Adjustment part	Description
<b>SUB COLOUR-2</b>	Signal generator  Oscilloscope  Remote control unit	TP-47B TP-E [CRT SOCKET PWB ]	[2.V/C] 10.COLOUR (PAL/SECAM/NTSC)	<p><b>[Method of adjustment using measuring instrument]</b></p> <p><b>PAL COLOUR</b></p> <ol style="list-style-type: none"> <li>(1) Receive the PAL full field colour bar signal (75% white).</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) Set the PICTURE MODE to STD.</li> <li>(4) Select 2.V/C from the SERVICE MENU.</li> <li>(5) Select &lt; 10.COLOUR &gt;.</li> <li>(6) Set the initial setting value of &lt; 10.COLOUR &gt;.</li> <li>(7) Connect the oscilloscope between TP-47B and TP-E.</li> <li>(8) Adjust PAL COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltage difference between white (W) and blue (B)).</li> <li>(9) Press the [MENU] key and memorize the set value.</li> </ol> <p><b>SECAM COLOUR [Except AV-28H77SK / AV-32H77SK]</b></p> <ol style="list-style-type: none"> <li>(1) Receive the SECAM colour bar signal (75% white).</li> <li>(2) Set the initial setting value of SECAM COLOUR.</li> <li>(3) Adjust SECAM COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltage difference between white (W) and blue (B)).</li> <li>(4) Press the [MENU] key and memorize the set value.</li> </ol> <p><b>NTSC 3.58 COLOUR</b></p> <ol style="list-style-type: none"> <li>(1) Input the NTSC 3.58MHz signal (full field colour bar with 75% white) from the EXT terminal.</li> <li>(2) Set the initial setting value of NTSC 3.58 COLOUR.</li> <li>(3) Adjust NTSC 3.58 COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltage difference between white (W) and blue (B)).</li> <li>(4) Press the [MENU] key and memorize the set value.</li> </ol> <p><b>NTSC 4.43 COLOUR</b></p> <ol style="list-style-type: none"> <li>(1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.</li> </ol>



**[PAL COLOUR VOLTAGE SETTING]**

	Voltage setting	
	AV-28H4BU AV-28H4SU AV-28H40SU AV-32H4BU AV-32H4SU AV-32H40SU AV-32H47SU	AV-28H77SK AV-32H77SK
VOLTAGE (W-B)	+11V	+3V

**[SECAM COLOUR VOLTAGE SETTING]**

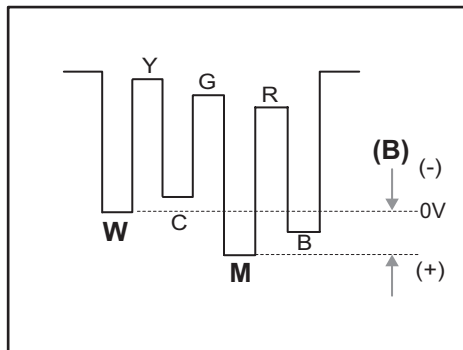
	Voltage setting
VOLTAGE (W-B)	+6V

**[NTSC COLOUR VOLTAGE SETTING]**

	Voltage setting
VOLTAGE (W-B)	+1V



Item	Measuring instrument	Test point	Adjustment part	Description
SUB HUE-1	Remote control unit		[2.V/C] 11.HUE	<p><b>[Method of adjustment without measuring instrument]</b></p> <p><b>NTSC 3.58</b></p> <ol style="list-style-type: none"> <li>(1) Input the NTSC 3.58MHz signal from the EXT terminal.</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) Set the PICTURE MODE to STD.</li> <li>(4) Select 2.V/C from the SERVICE MENU.</li> <li>(5) Select &lt; 11. HUE &gt;.</li> <li>(6) Set the initial setting value of &lt; 11. HUE &gt;.</li> <li>(7) If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue.</li> <li>(8) Press the [MENU] key and memorize the set value.</li> </ol> <p><b>NTSC 4.43</b></p> <ol style="list-style-type: none"> <li>(1) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol>
SUB HUE-2	Signal generator  Oscilloscope  Remote control unit	TP-47B TP-E [CRT SOCKET PWB]	[2.V/C] 11.HUE	<p><b>[Method of adjustment using measuring instrument]</b></p> <p><b>NTSC 3.58 HUE</b></p> <ol style="list-style-type: none"> <li>(1) Input the NTSC 3.58MHz signal (full field colour bar with 75% white) from the EXT terminal.</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) Set the PICTURE MODE to STD.</li> <li>(4) Select 2.V/C from the SERVICE MENU.</li> <li>(5) Select &lt; 11. HUE &gt;.</li> <li>(6) Set the initial setting value of &lt; 11. HUE &gt;.</li> <li>(7) Connect the oscilloscope between TP-47B and TP-E.</li> <li>(8) Adjust &lt; 11. HUE &gt; to bring the value of (B) in the illustration to the values as shown given below (voltage difference between white (W) and magenta (M)).</li> <li>(9) Press the [MENU] key and memorize the set value.</li> </ol> <p><b>NTSC 4.43 HUE</b></p> <ol style="list-style-type: none"> <li>(1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.</li> </ol>



**[VOLTAGE SETTING]**

	Voltage setting
VOLTAGE (W-M)	-10V

#### 4.8.5 VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
VSM PRESET	Remote control unit		[5.VSM PRESET] (BRIGHT/STD/STD/STD) 1. CONT. 2. BRIGHT 3. SHARP 4. COLOUR 5. HUE (COOL/WARM/NORMAL) 1. WDR R 2. WDR G 3. WDR B	(1) Set the ZOOM mode to FULL. (2) Select 5.VSM PRESET from the SERVICE MENU. (3) Press the [MENU] key, and set the PICTURE MODE to BRIGHT. (4) Adjust the [FUNCTION UP/DOWN] and [-/+ ] key to bring the set values of 1.CONT. to 5. HUE to the values shown in the [5. VSM PRESET]. (5) Press the [MENU] key, and set the PICTURE MODE to STD. (6) Make similar adjustment as in 4 above. (7) Press the [MENU] key, and set the PICTURE MODE to SOFT. (8) Make similar adjustment as in 4 above. (9) Press the [MENU] key, and set the COLOUR TEMP to COOL. (10) Adjust the [FUNCTION UP/DOWN] and [-/+ ] key to bring the set values of 1.WDR R to 3. WDR B to the values shown in the table. (11) Press the [MENU] key, and set the COLOUR TEMP to WARM. (12) Make similar adjustment as in 10 above. (13) Press the [MENU] key, and set the COLOUR TEMP to NORMAL. (14) Make similar adjustment as in 10 above.

# JVC

## SCHEMATIC DIAGRAMS

COLOUR TELEVISION

**AV-28H4BU, AV-28H4SU,  
AV-28H40SU, AV-28H77SK,  
AV-32H4BU, AV-32H4SU,  
AV-32H40SU, AV-32H47SU,  
AV-32H77SK**

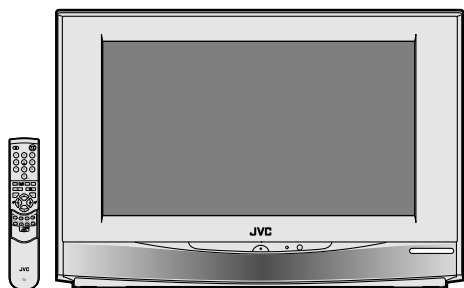
CD-ROM No.SML200403

BASIC CHASSIS

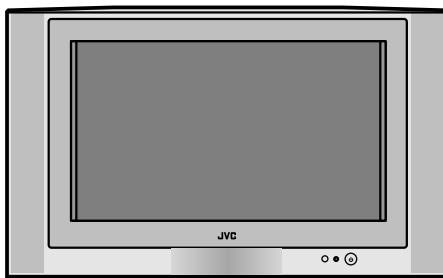
**ML2**

InteríArt  
*Natural Vision*

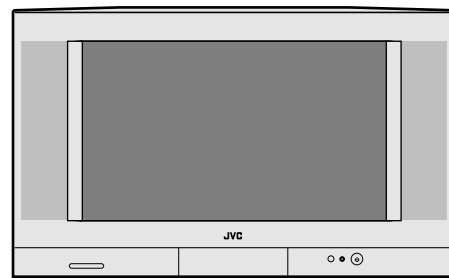
**T-V LINK**



**AV-28H4SU, AV-28H4BU  
AV-32H4SU, AV-32H4BU**



**AV-28H40SU, AV-28H77SK  
AV-32H40SU, AV-32H77SK**




**AV-32H47SU**



# AV-28H4BU, AV-28H4SU, AV-28H40SU, AV-28H77SK AV-32H4BU, AV-32H4SU, AV-32H40SU, AV-32H47SU, AV-32H77SK STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

### 1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k $\Omega$  /V
- (4)Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ s / div  
: V  $\Rightarrow$  5ms / div  
: Others  $\Rightarrow$  Sweeping time is specified
- (5)Voltage values : All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209  $\rightarrow$  R209

### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

#### (1)Resistors

##### ● Resistance value

- No unit : [  $\Omega$  ]
- K : [ k $\Omega$  ]
- M : [ M $\Omega$  ]

##### ● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

##### ● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflamable resistor
- FR : Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

#### (2)Capacitors

##### ● Capacitance value

- 1 or higher : [pF]
- less than 1 : [ $\mu$ F]

##### ● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [ $\mu$ F]/withstand voltage[V]

##### ● Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

#### (3)Coils

- No unit : [ $\mu$ H]
- Others : As specified

#### (4)Power Supply

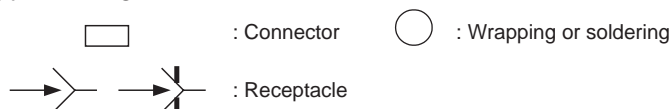


\* Respective voltage values are indicated





#### (5)Test point

-  : Test point
-  : Only test point display



#### (6)Connecting method



#### (7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

## 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

#### NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

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    FRONT CONTROL PWB PATTERN ..... 2-28

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    FRONT CONTROL PWB PATTERN ..... 2-29

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    MICOM/100Hz PWB PATTERN ..... 2-31

USING P.W. BOARD

PWB ASS'Y name	AV-28H4BU	AV-28H4SU	AV-28H40SU	AV-28H77SK	AV-32H4BU	AV-32H4SU	AV-32H40SU	AV-32H47SU	AV-32H77SK
MAIN P.W. BOARD	SML-1202A-U2	←	←	SML-1922A-U2	SML-1201A-U2	←	←	←	SML-1921A-U2
MICOM/100Hz P.W. BOARD	SML0Z202A-U2	←	←	←	←	←	←	←	←
POWER & DEF P.W. BOARD	SML-2202A-U2	←	←	←	SML-2201A-U2	←	←	←	←
CRT SOCKET P.W. BOARD	SML-3202A-U2	←	←	←	SML-3201A-U2	←	←	←	←
AV JACK P.W. BOARD	SML0J201A-U2	←	←	←	←	←	←	←	←
FRONT CONTROL P.W. BOARD	SML-8201A-U2	←	SML-8202A-U2	←	SML-8201A-U2	←	SML-8202A-U2	←	←
SIDE CONTROL P.W. BOARD	SML-8121A-U2	←	SML-8122A-U2	←	SML-8121A-U2	←	SML-8122A-U2	←	←

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

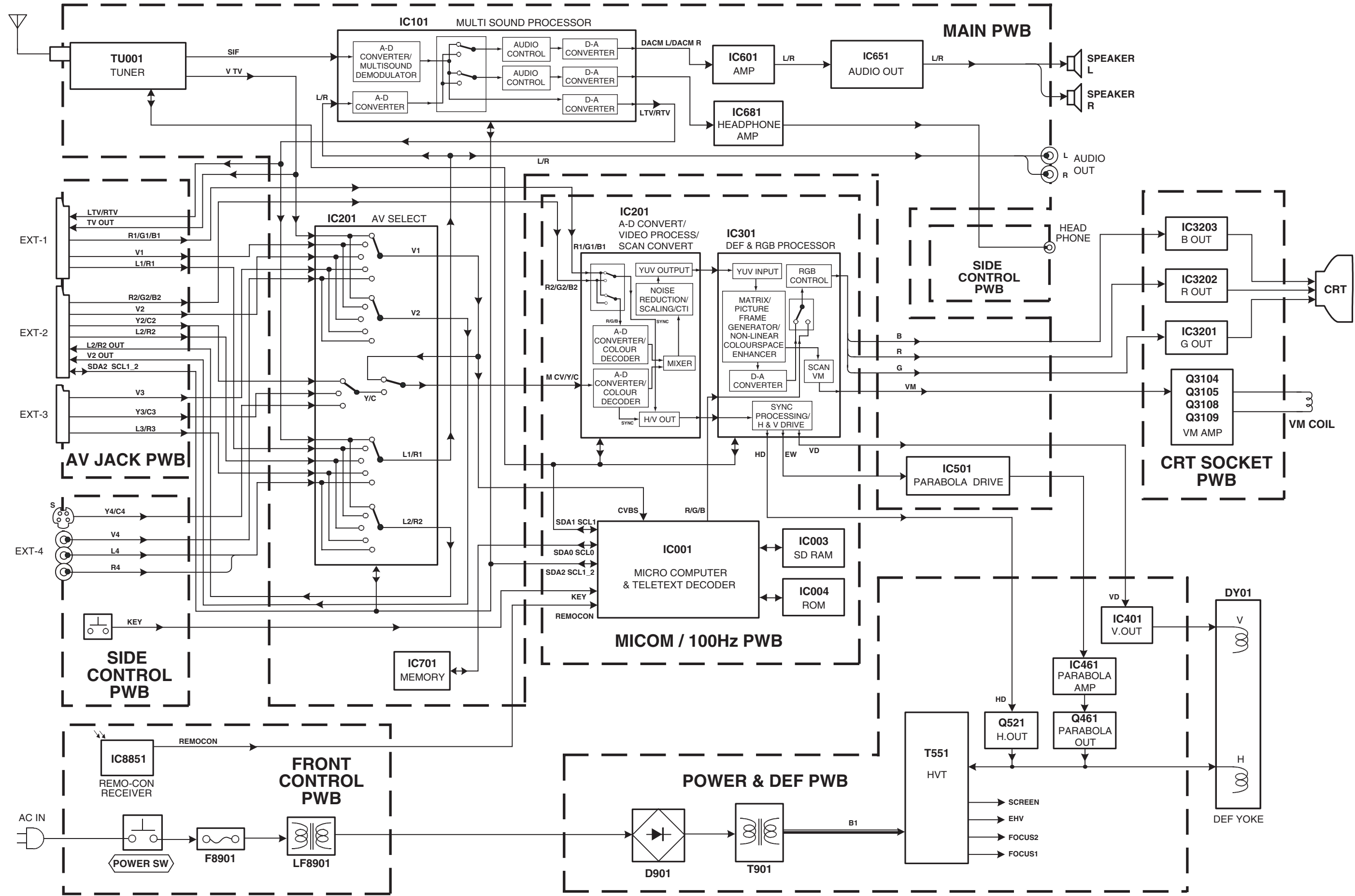
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

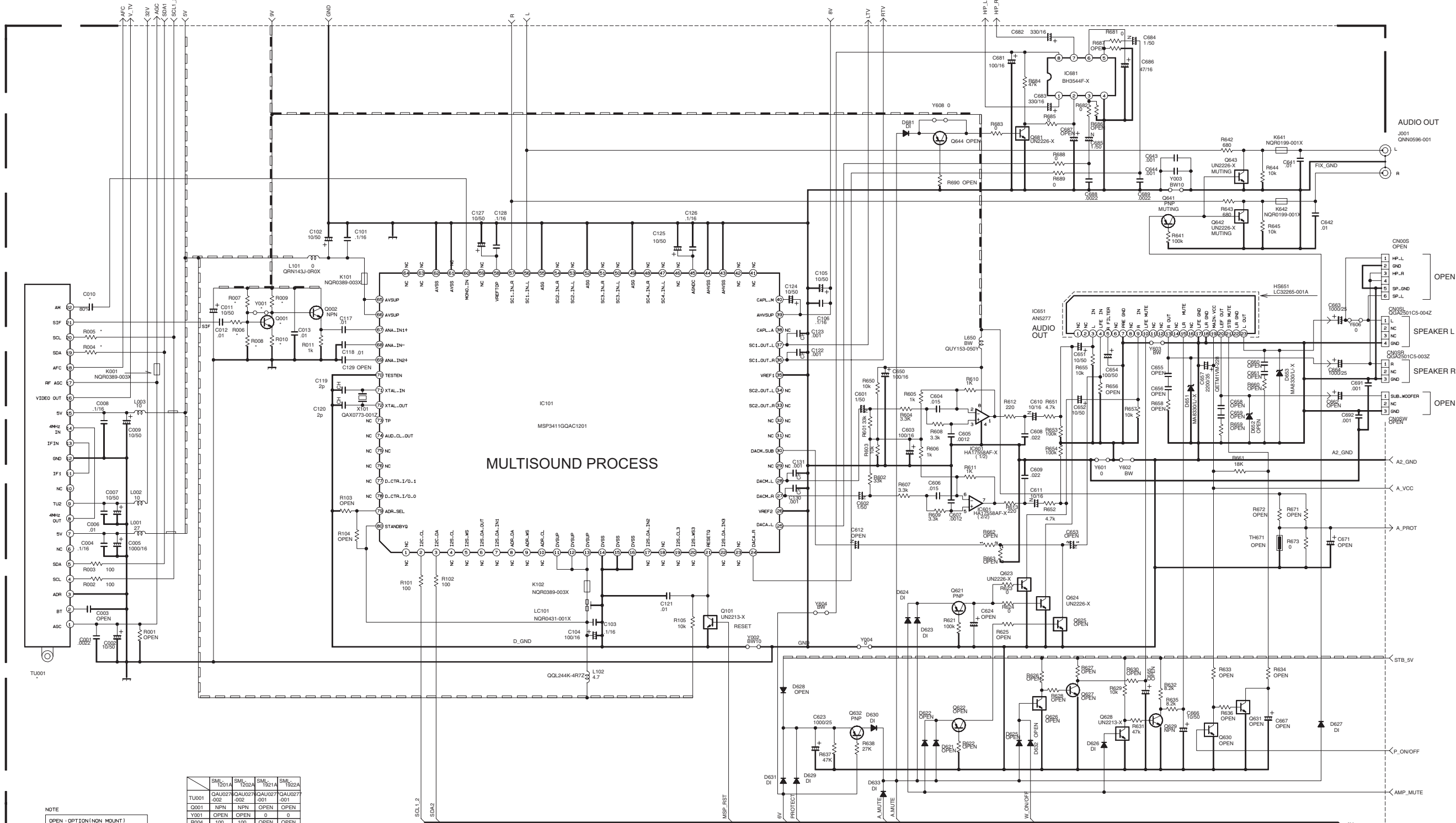
TOP VIEW		

BLOCK DIAGRAM



CIRCUIT DIAGRAMS  
MAIN PWB CIRCUIT DIAGRAM (1/2)

MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC101			
1	0	4	0
2	4.5	5	0
3	4.5	7	14.2
4	1.6	8	0.7
5	1.5	9	0
6	1.6	10	29.6
7	1.6	11	15.5
8	1.6	12	14.1
9	1.6	IC681	
10	1.6	1	2.4
11	4.9	2	4.6
12	4.9	3	2.4
13	4.9	4	0
14	0	5	0
15	0	6	2.4
16	0	7	2.4
17	0	8	5.8
18	0	TU001	
19	0	1	18
20	0	2	3.2
21	4.9	3	0
22	0	4	4.5
23	0	5	4.5
24	0.1	6	0
25	0.1	7	4.8
26	0	8	0
27	0	9	31.4
28	0	10	0
29	0	11	2.5
30	0	12	0
31	0	13	2.5
32	0	14	0
33	3.8	15	4.9
34	3.8	16	1.3
35	0	17	1.8
36	3.7	18	1.7
37	3.7	19	4.6
38	6.9	20	4.5
39	8	21	2
40	7	22	2.5
41	0	Q001	
42	0	E	2
43	0	C	4.6
44	0	B	2.7
45	3.7	Q002	
46	0	E	3.9
47	3.7	C	8.9
48	3.7	B	4.6
49	0	Q101	
50	3.7	E	0
51	3.7	C	4.9
52	0	B	0
53	3.7	Q621	
54	3.7	E	0.2
55	0	C	-1.6
56	4.4	B	0
57	4.4	Q623	
58	2.6	E	0
59	0	C	0
60	3.7	B	-1.6
61	0	Q624	
62	0	E	0
63	0	C	0
64	0	B	-1.5
65	4.9	Q628	
66	4.9	E	0
67	1.5	C	4.1
68	0	B	0
69	0	Q629	
70	0	E	0
71	2.2	C	0
72	2.1	B	0.6
73	0	Q632	
74	2.6	E	5.3
75	0	C	-1.8
76	0	B	5.8
77	0	Q641	
78	0	E	0.1
79	2.5	C	-1.5
80	4.9	B	0
IC601		Q642	
1	4.4	E	0
2	4.4	C	4.1
3	4.3	B	-1.5
4	0	Q643	
5	4.4	E	0
6	4.4	C	4.1
7	4.4	B	-1.5
8	8.9	Q681	
IC651		E	0
1	0	C	4.6
2	0	B	0.1
3	28		

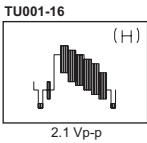


NOTE  
OPEN : OPTION(NON MOUNT)  
BW : 5mm BUSWIRE  
BW10 : 10mm BUSWIRE  
BW15 : 15mm BUSWIRE  
O : NRSAB3J-OROX  
NPN : 2SD601A/GR/-X  
PNP : 2SB709A/GR/-X  
DI : HA1111-X  
DTC : DTC124EKA-X  
DTA : DTA124EKA-X

	SML-1201A	SML-1202A	SML-1921A	SML-1922A
TU001	QAU027-002	QAU027-002	QAU027-001	QAU027-001
Q001	NPN	NPN	OPEN	OPEN
Y001	OPEN	OPEN	0	0
R004	100	100	OPEN	OPEN
R005	100	100	OPEN	OPEN
R006	0	0	4.7k	4.7k
R007	2.2k	2.2k	10k	10k
R008	1k	1k	10k	10k
R009	680	680	OPEN	OPEN
R010	330	330	OPEN	OPEN
C010	1/10	1/10	OPEN	OPEN

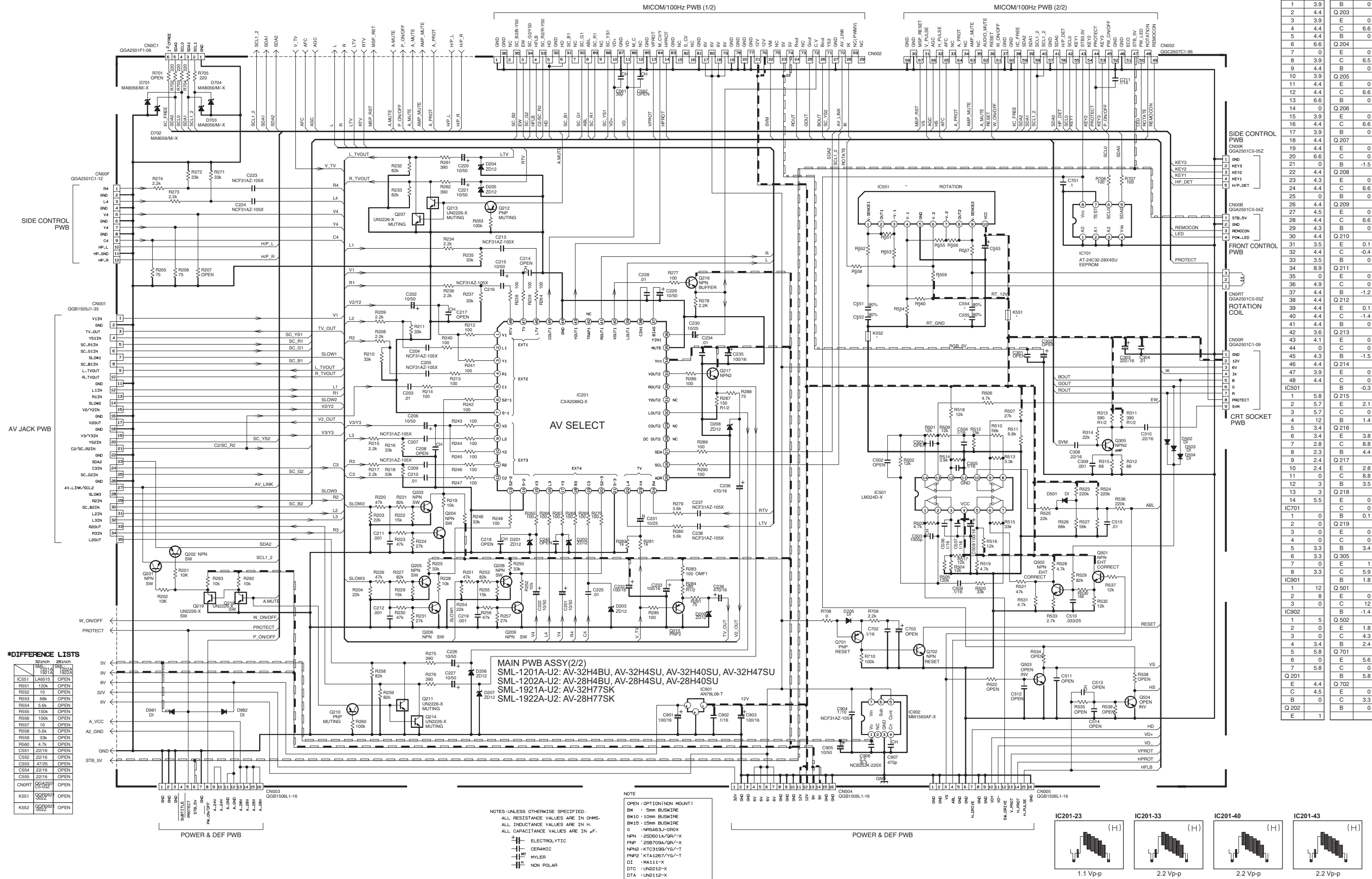
MAIN PWB ASSY(1/2)  
SML-1201A-U2: AV-32H4BU, AV-32H4SU, AV-32H40SU, AV-32H47SU  
SML-1202A-U2: AV-28H4BU, AV-28H4SU, AV-28H40SU  
SML-1921A-U2: AV-32H77SK  
SML-1922A-U2: AV-28H77SK

NOTES: UNLESS OTHERWISE SPECIFIED.  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN uF.  
ELECTROLYTIC  
CERAMIC  
MYLAR  
NON POLAR

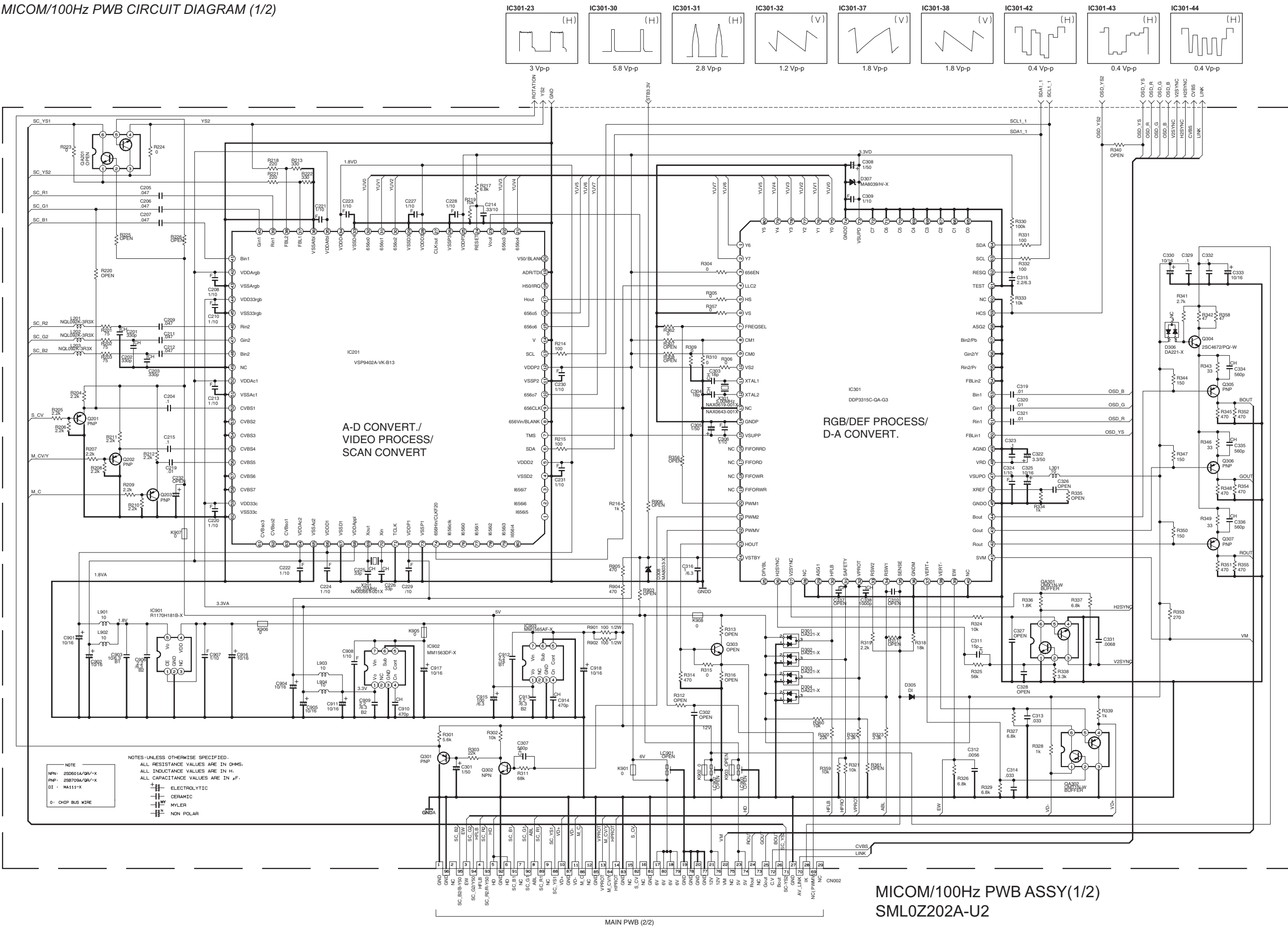




MAIN PWB CIRCUIT DIAGRAM (2/2)



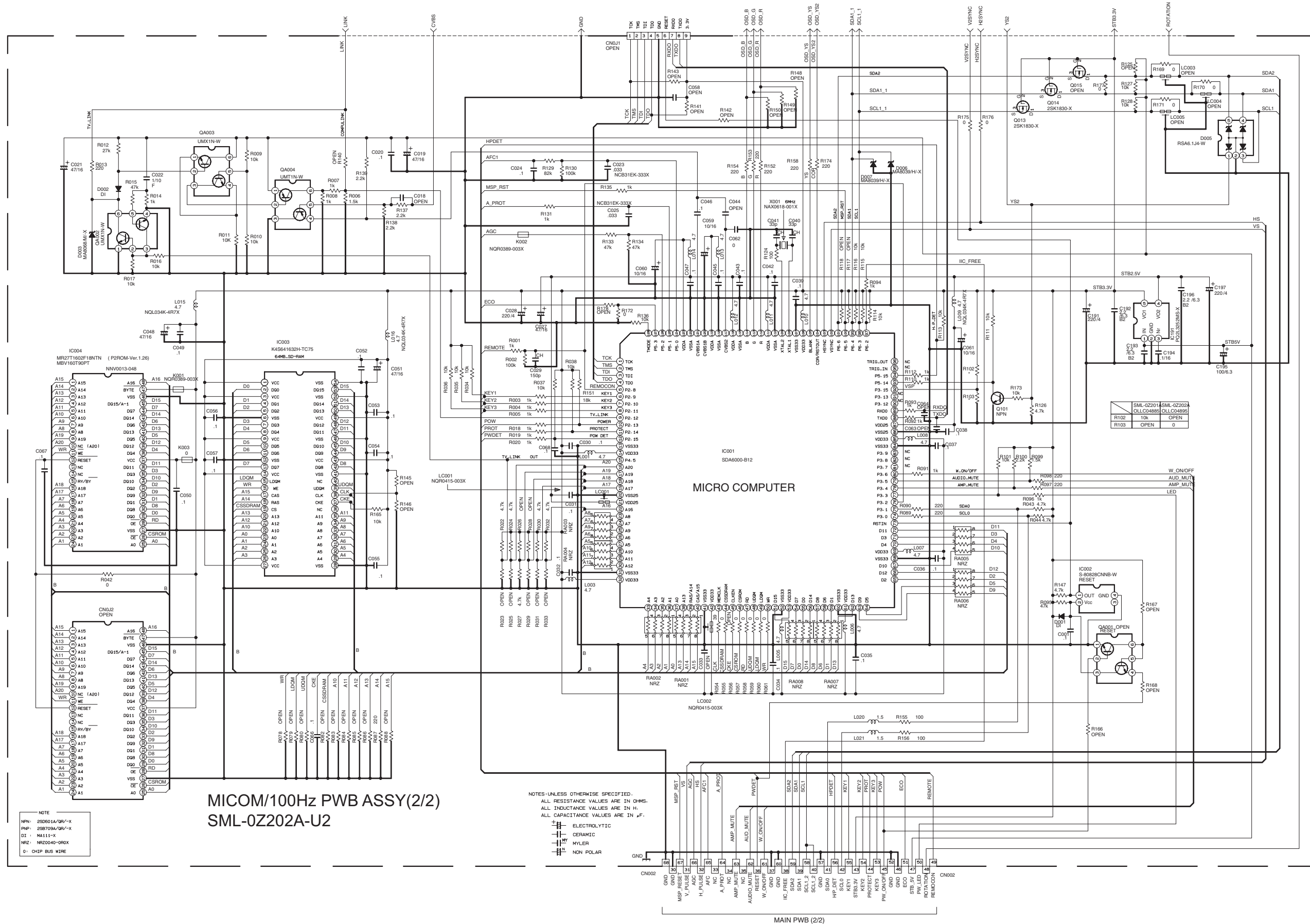
MICOM/100Hz PWB CIRCUIT DIAGRAM (1/2)



MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC 201		17	0	CN002	
1	2.1	18	0	1	0
2	0.6	19	0	2	0
3	0.1	20	0	3	2.4
4	0	21	0	4	2.1
5	1.7	22	0	5	1.5
6	2.5	23	0	6	1.5
7	3.2	24	3.3	7	0
8	0	25	0	8	1.6
9	2	26	0.1	9	0
10	1.8	27	0	10	2.1
11	0	28	0	11	2
12	3.2	29	0	12	0
13	2.5	30	0.6	13	0
14	0	31	0.1	14	0.3
15	1.1	32	0	15	0
16	1.1	33	0	16	0
17	0.3	34	0	17	5.8
18	0.2	35	0	18	5.9
19	0	36	0	19	0
20	0	37	1.4	20	0
21	2.2	38	1.5	21	12
22	1.1	39	2.4	22	4.8
23	0	40	0	23	0
24	1.9	41	4.7	24	2.6
25	3.2	42	4.7	25	2.6
26	0	43	4.7	26	2.6
27	0	44	4.7	27	0
28	1.7	45	0	28	1.5
29	0	46	2.3	29	0
30	1.3	47	5	30	0
31	1.1	48	2.5	31	4.5
32	1.1	49	0	32	0
33	0	50	0	33	3.8
34	1.7	51	0.2	34	0
35	0	52	0	35	0
36	0	53	0.2	36	0
37	0	54	0	37	12
38	0	55	0	38	0
39	0.7	56	0	39	0
40	0.6	57	0	40	5.8
41	0.6	58	0	41	0
42	0	59	0	42	0
43	0	60	0	43	0
44	3.3	61	0	44	0
45	0	62	0	45	4.1
46	0	63	2.5	46	0
47	0	64	2.5	47	4.3
48	0	65	0	48	0
49	0	66	0	49	0
50	1.7	67	0	50	0
51	0	68	0	51	0
52	1	69	0	52	0
53	0	70	0	53	0
54	0	71	0	54	0
55	1	72	0	55	0
56	0.7	73	3.2	56	0
57	0	74	0	57	0
58	0	75	1.1	58	0
59	3.3	76	1.1	59	0
60	0	77	1.3	60	0
61	1.7	78	1.1	61	0
62	0.8	79	2.1	62	0
63	1.7	80	1.1	63	0
64	1.7	IC 901		64	0
65	0	1	0	65	0
66	1.7	2	0	66	0
67	0	3	0	67	0
68	1.7	4	5.9	68	0
69	0.3	5	1.8	69	0
70	0.5	IC 902		70	0
71	0	1	0	71	0
72	3.2	2	0	72	0
73	0	3	0	73	0
74	1.7	4	0	74	0
75	2.3	5	5.8	75	0
76	0.7	6	0	76	0
77	0.1	7	5.8	77	0
78	1.4	IC 903		78	0
79	0.3	1	0	79	0
80	0.1	2	0	80	0
IC 301		3	0	IC 301	
1	1.1	4	0	1	0
2	1.8	5	6.2	2	0
3	3.2	6	0	3	0
4	2	7	6.2	4	0
5	0.3	Q 201		5	0
6	0	E	0.6	6	0
7	0	C	0	7	0
8	0	B	0	8	0
9	0	Q 202		9	0
10	0	E	0	10	0
11	1.4	C	0	11	0
12	1.4	B	2.1	12	0
13	0	Q 203		13	0
14	0	E	2.7	14	0
15	3.2	C	0	15	0
16	0	B	2.1	16	0

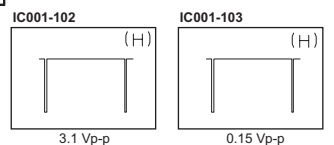
MICOM/100Hz PWB ASSY(1/2)  
SML0Z202A-U2

MICOM/100Hz PWB CIRCUIT DIAGRAM (2/2)



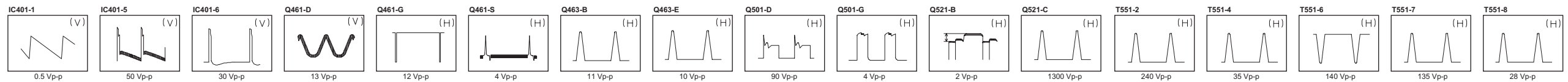
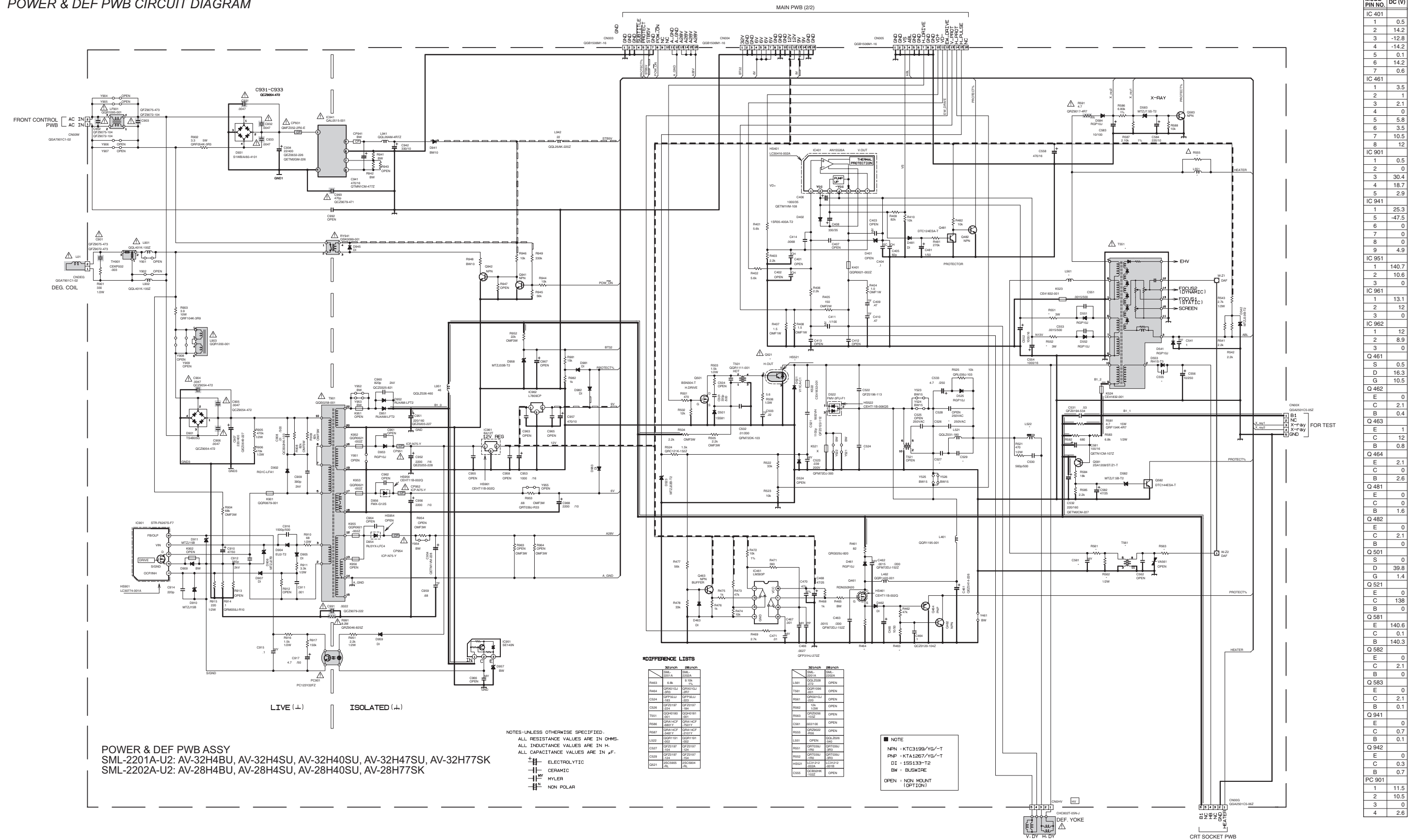
MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC 001		98	2.5	D	0
1	0	99	2.5	G	3.3
2	1	100	0	Q 101	
3	0	101	0	E	0
4	1	102	3.2	C	3.2
5	2.4	103	3.3	B	0
6	3.1	104	0	CN002	
7	3.1	105	0	30	0
8	3.1	106	3.3	31	3.2
9	0	107	0	32	3.3
10	0	108	0	33	0
11	0	109	0.4	34	0
12	3.3	110	0	35	0
13	0	111	0	36	3.2
14	3.3	112	0	37	0
15	0	113	0	38	0
16	0	114	0	39	4.5
17	0	115	0	40	4.4
18	0	116	0	41	3.3
19	0	117	0	42	3.3
20	0	118	0	43	3.3
21	2.4	119	0	44	2.1
22	0	120	*	45	0
23	0	121	0	46	0
24	0	122	0	47	4.8
25	0	123	0	48	12
26	0	124	0	49	2.6
27	1.3	125	0	50	0
28	0.7	126	0	51	0
29	0	127	*	52	0
30	2.6	128	*	53	3.3
31	0	IC 003		54	3.3
32	3.3	1	3.2	55	3.3
33	1.3	2	0	56	3.3
34	1.3	3	3.2	57	0
35	1.3	4	0	58	4.4
36	0	5	0	59	4.4
37	0	6	0	60	0
38	2.6	7	0	61	0
39	3	8	0	62	0.1
40	3.1	9	3.3	63	0
41	0	10	0	64	0
42	3.3	11	0	65	1.6
43	6.4	12	0	66	1.8
44	3.1	13	0	67	0
45	3.3	14	3.3	68	0
46	3.3	15	0		
47	3.3	16	3.2		
48	0	17	3.1		
49	0	18	3		
50	0	19	3.1		
51	2.6	20	2.6		
52	0	21	2.6		
53	3.3	22	0.7		
54	0.3	23	0		
55	0.2	24	0		
56	2.6	25	1.3		
57	0.3	26	1.3		
58	0.2	27	3.3		
59	0.3	28	0		
60	0	29	1.3		
61	3.3	30	0		
62	0.3	31	1.3		
63	0.3	32	1.3		
64	0.3	33	0		
65	0	34	0		
66	0	35	0		
67	0	36	0		
68	0	37	3.3		
69	3.3	38	0		
70	0	39	0		
71	0	40	0		
72	0	41	0		
73	*	42	0		
74	3.1	43	0		
75	3.1	44	0		
76	1.7	45	0		
77	0	46	0		
78	0	47	0.1		
79	0.1	48	0		
80	0	49	3.2		
81	2.3	50	0		
82	0	51	3		
83	2.3	52	0		
84	0	53	3		
85	3.3	54	0		
86	0	IC 191			
87	2.4	1	4.8		
88	0	2	0		
89	2.23	3	1.2		
90	0	4	2.4		
91	0	5	3.3		
92	0	Q 013			
93	3	S	2.5		
94	3	D	4.4		
95	2.4	G	3.3		
96	3.3	Q 014			
97	0	S	2.5		

\*: Can not scale

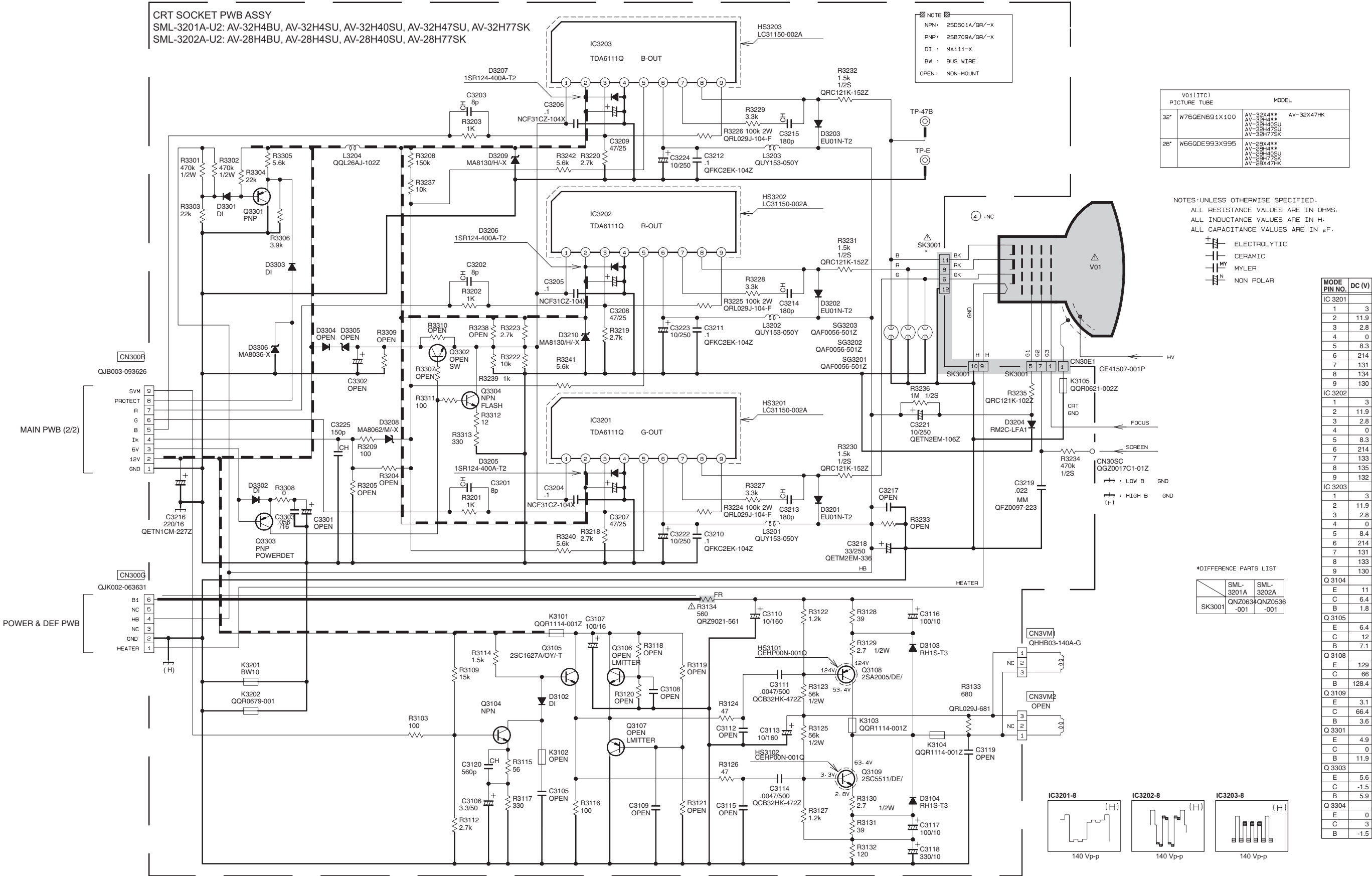


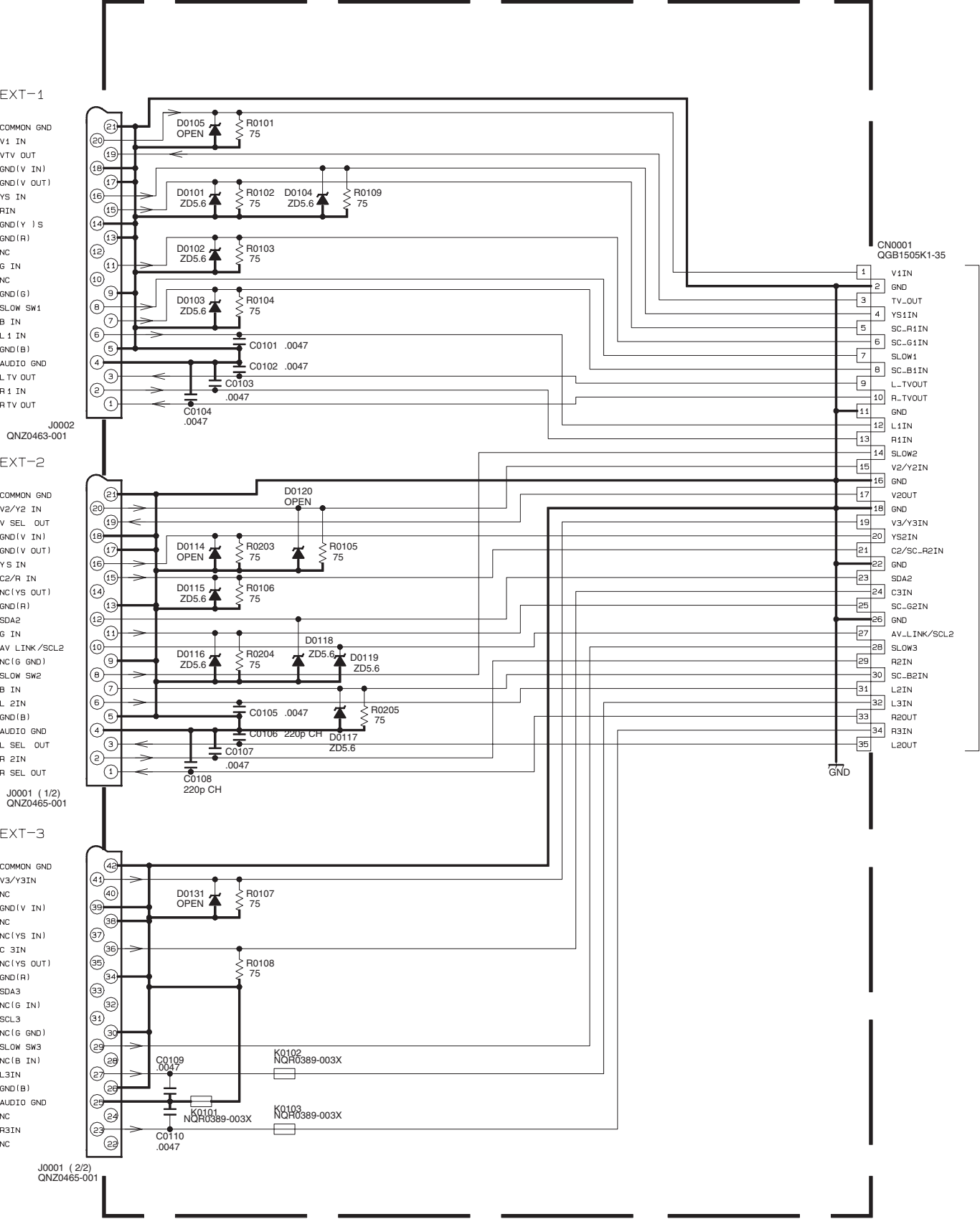


### POWER & DEF PWB CIRCUIT DIAGRAM



CRT SOCKET PWB CIRCUIT DIAGRAM





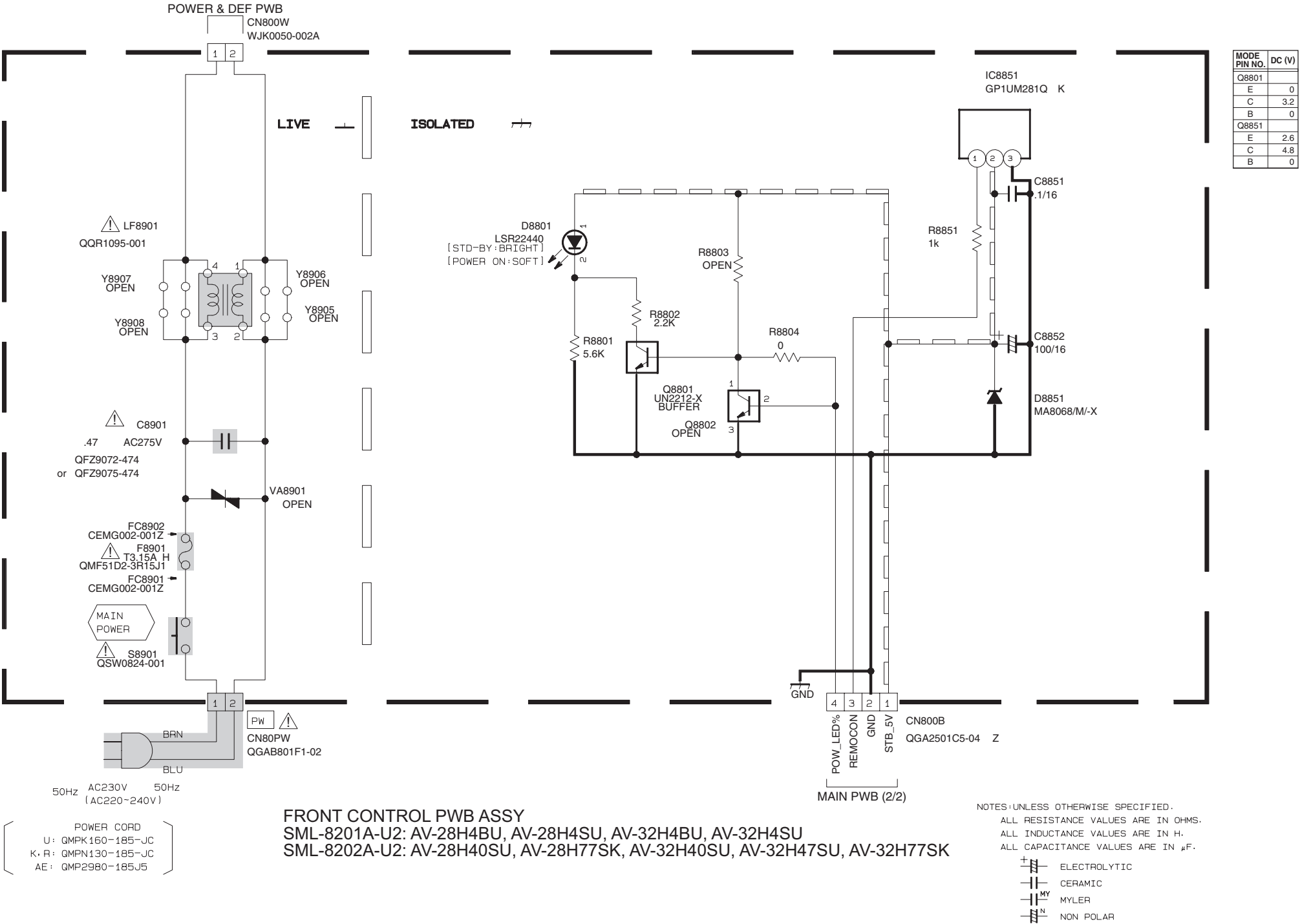
NOTE

OPEN : OPTION(NON MOUNT)  
BW : 5mm IM-BW(GUY153-050Y)  
0 : NPSA63J-0R0X  
ZD5.6 : MA3056/M/-X

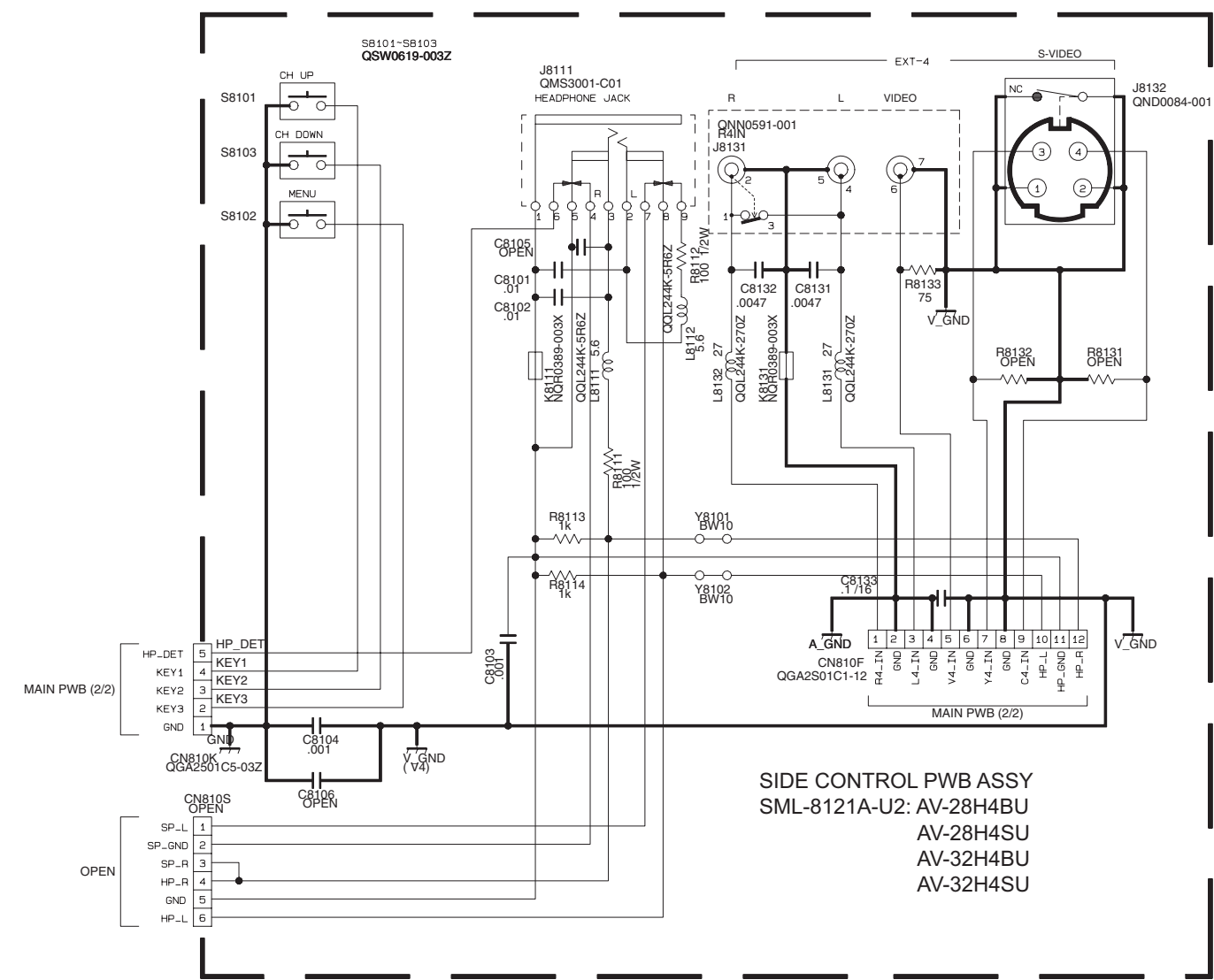
NOTES: UNLESS OTHERWISE SPECIFIED.  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN  $\mu$ F.

ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR

FRONT CONTROL PWB CIRCUIT DIAGRAM



SIDE CONTROL PWB CIRCUIT DIAGRAM

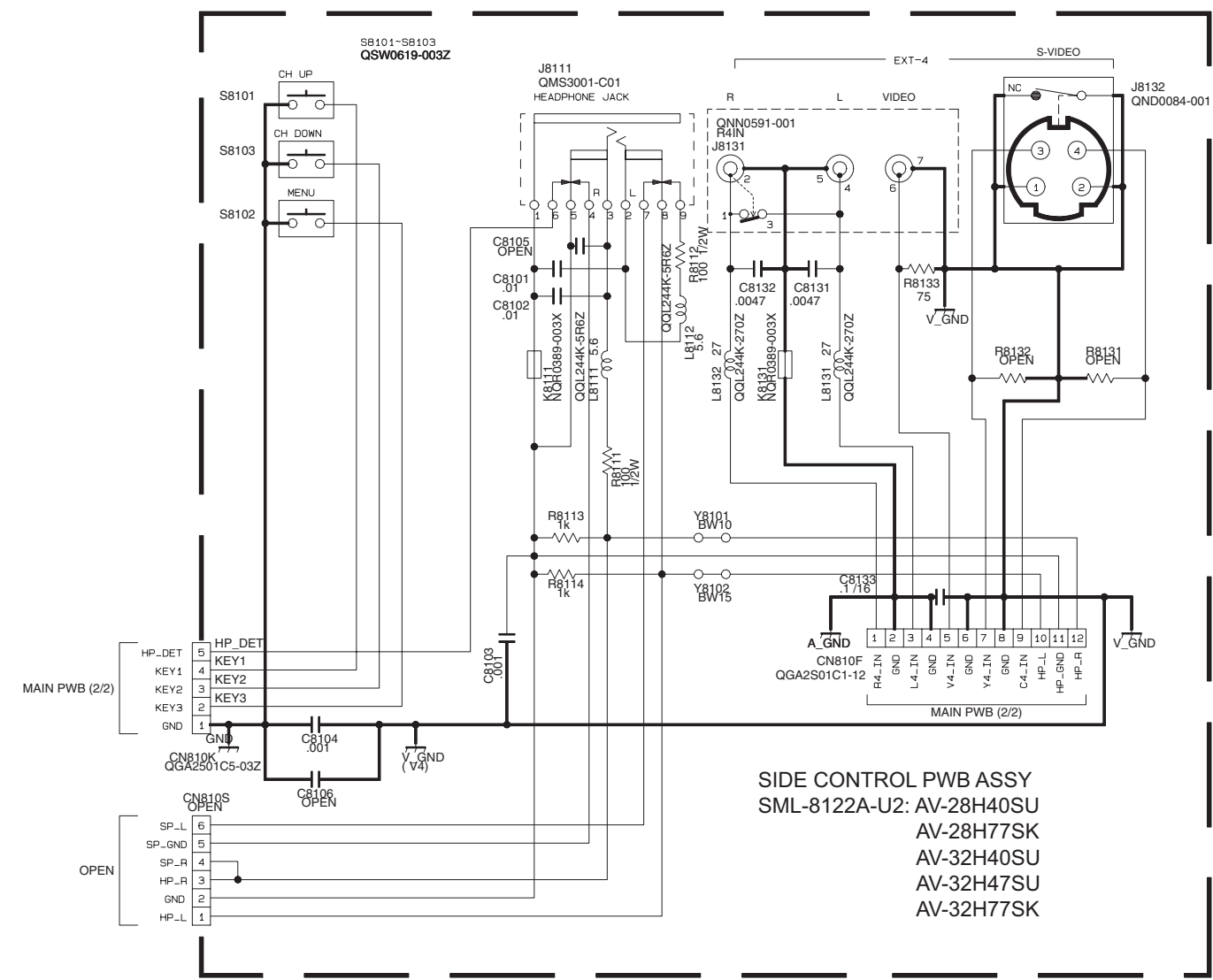


NPN: 2SD601A/QR/-X  
PNP: 2SB709A/QR/-X  
DI : MA111-X  
DTC: DTC124EKA-X  
DTA: DTA124EKA-X  
O: NRSA63J-OR0X  
BW: 5mm IM-BW  
BW10: 10mm IM-BW  
BW15: 15mm IM-BW

NOTES: UNLESS OTHERWISE SPECIFIED.  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN  $\mu$ F.

ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR

SIDE CONTROL PWB CIRCUIT DIAGRAM



NPN: 2SD601A/QR/-X  
PNP: 2SB709A/QR/-X  
DI : MA111-X  
DTC: DTC124EKA-X  
DTA: DTA124EKA-X  
O: NRSA63J-OR0X  
BW: 5mm IM-BW  
BW10: 10mm IM-BW  
BW15: 15mm IM-BW

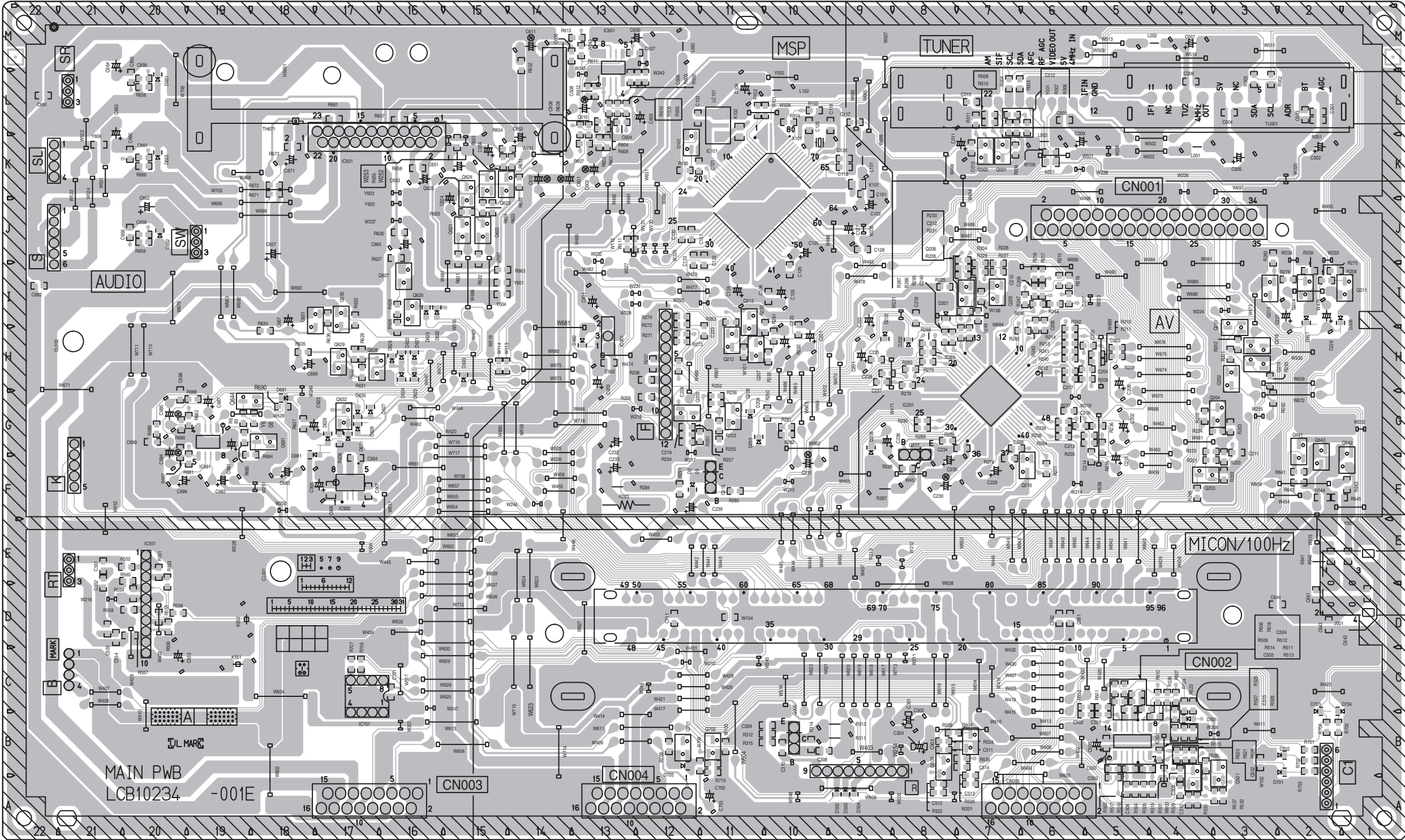
NOTES: UNLESS OTHERWISE SPECIFIED.  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN  $\mu$ F.

ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR

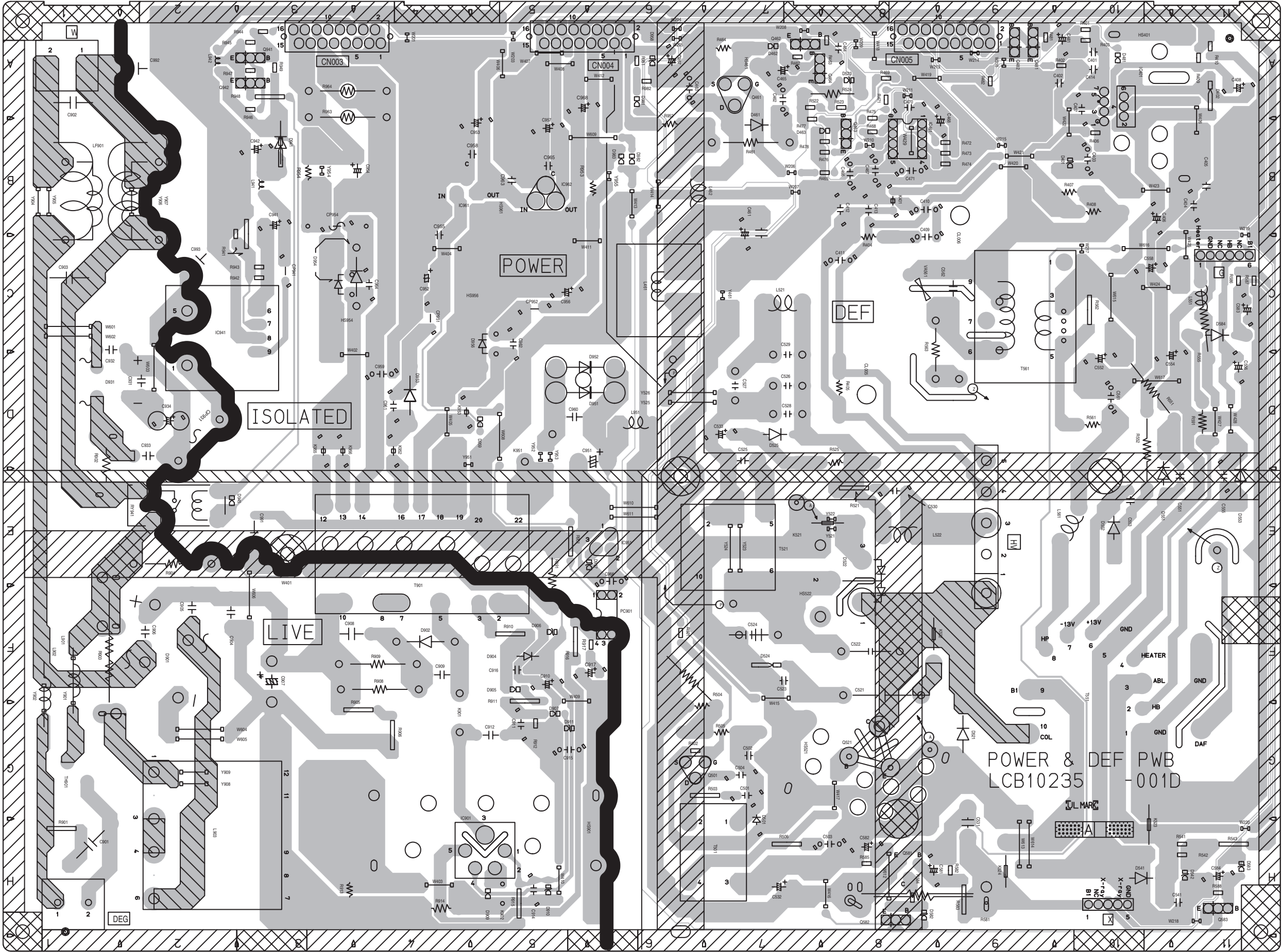


PATTERN DIAGRAMS  
MAIN PWB PATTERN

FRONT  
←

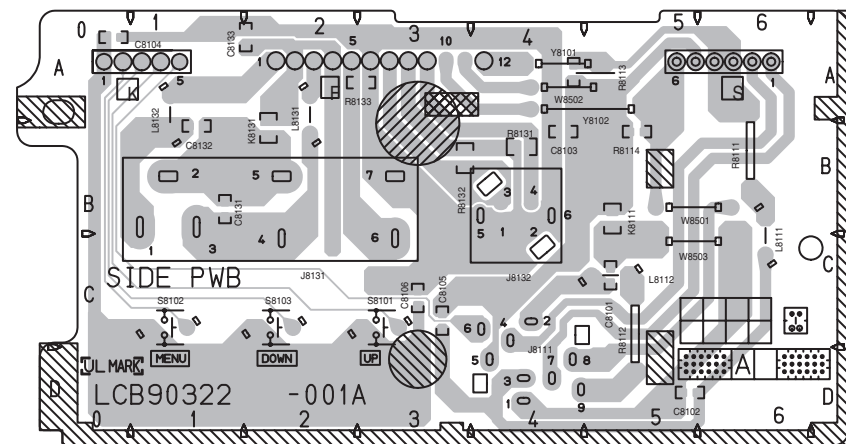
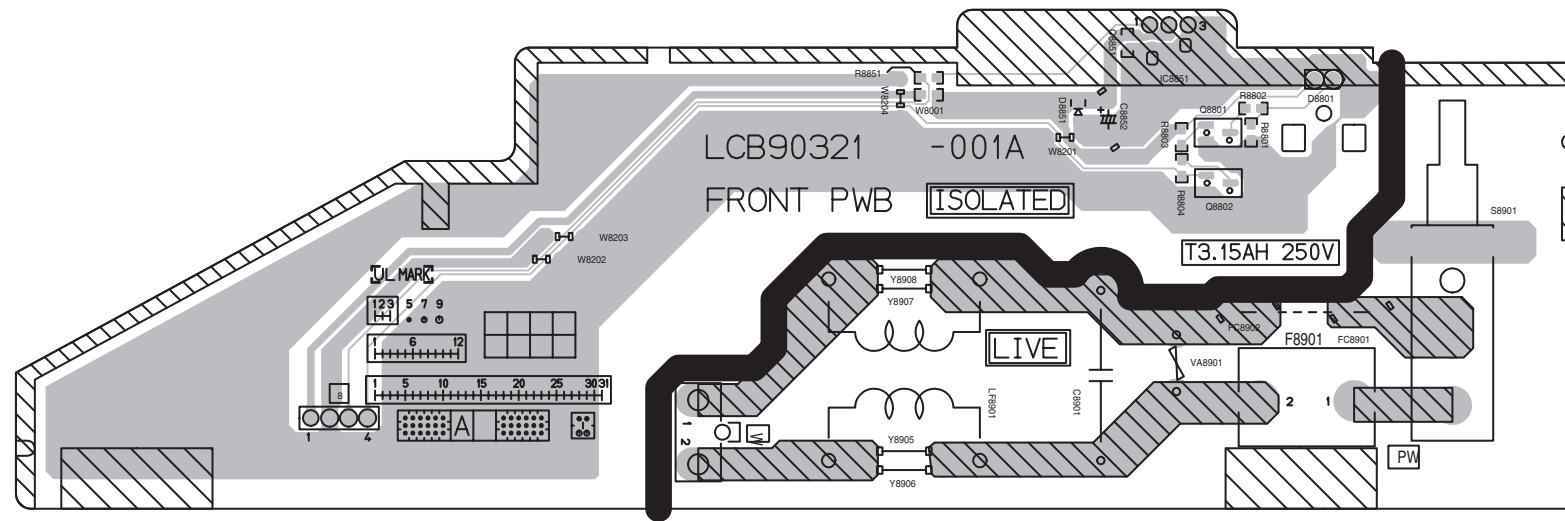


FRONT  
←

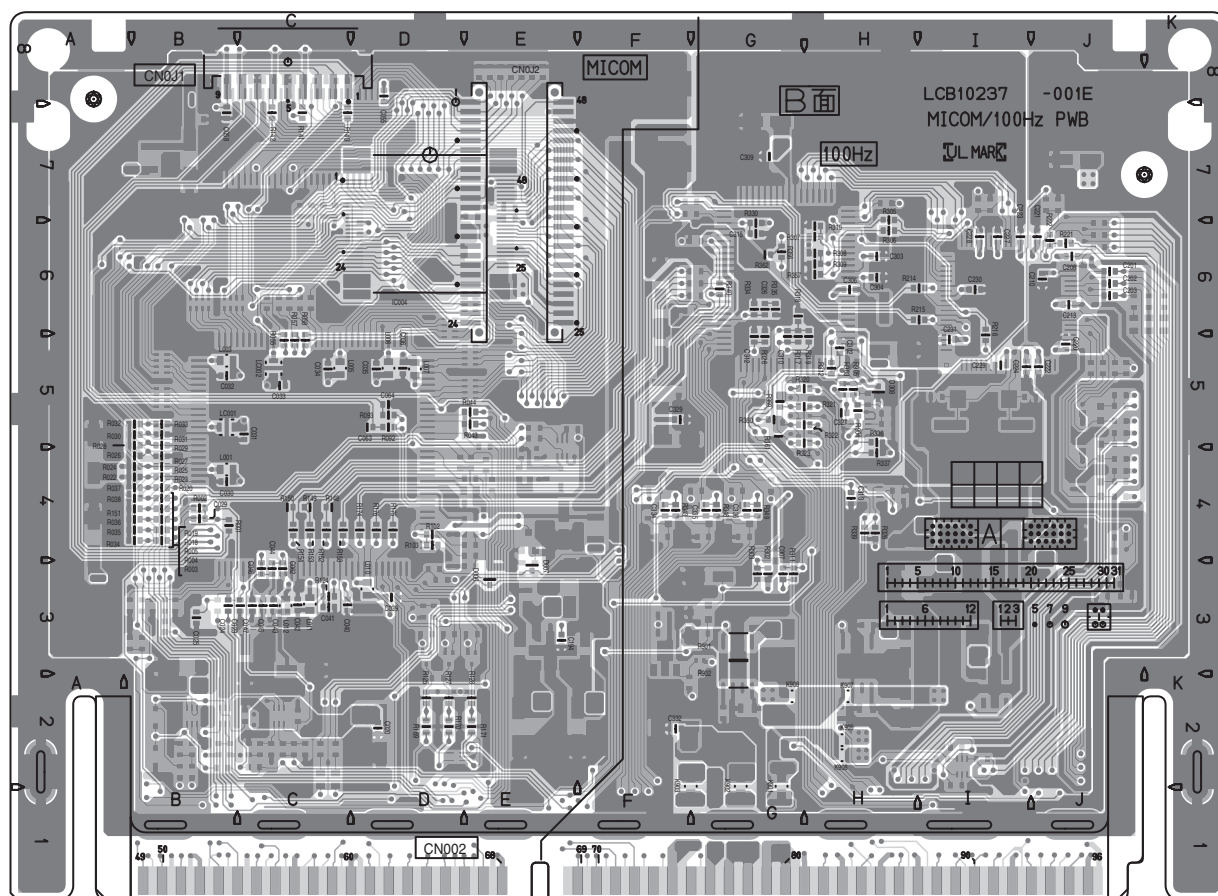
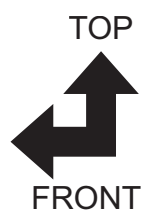


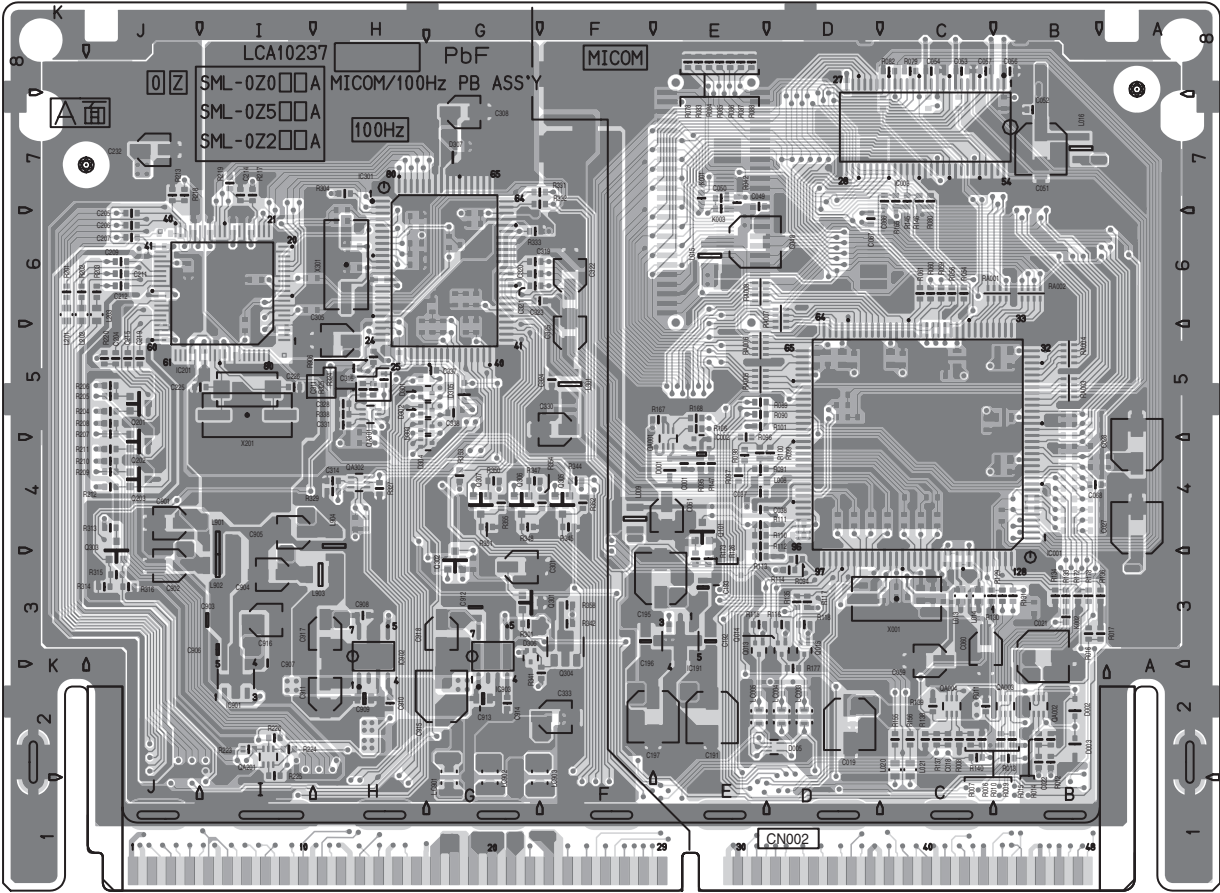






MICOM/100Hz PWB PATTERN [SOLDER SIDE]





# PARTS LIST

## CAUTION

- The parts identified by the  $\Delta$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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## USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-28H4BU	AV-28H4SU	AV-28H40SU	AV-28H77SK	AV-32H4BU	AV-32H4SU	AV-32H40SU	AV-32H47SU	AV-32H77SK
MAIN P.W.B	SML-1202A-U2	←	←	SML-1922A-U2	SML-1201A-U2	←	←	←	SML-1921A-U2
POWER&DEF P.W.B	SML-2202A-U2	←	←	←	SML-2201A-U2	←	←	←	←
CRT SOCKET P.W.B	SML-3202A-U2	←	←	←	SML-3201A-U2	←	←	←	←
SIDE CONTROL P.W.B	SML-8121A-U2	←	SML-8122A-U2	←	SML-8121A-U2	←	SML-8122A-U2	←	←
FRONT CONTROL P.W.B	SML-8201A-U2	←	SML-8202A-U2	←	SML-8201A-U2	←	SML-8202A-U2	←	←
AV JACK P.W.B	SML0J201A-U2	←	←	←	SML0J201A-U2	←	←	←	←
100HZ P.W.B	SML0Z202A-U2	←	←	←	SML0Z202A-U2	←	←	←	←
REMOTE CONTROL UNIT	RM-C64B-1C	←	←	←	←	←	←	←	←

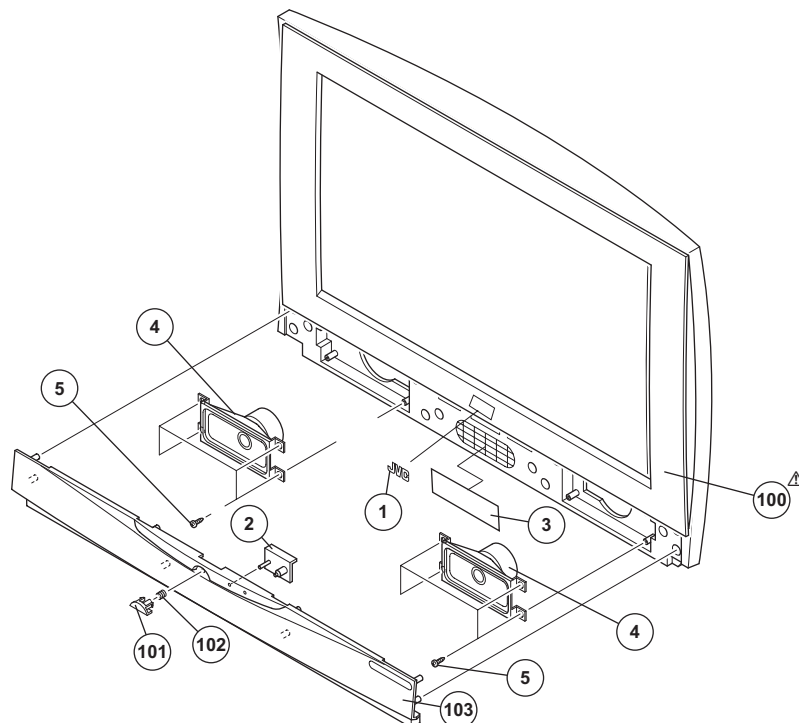
## EXPLODED VIEW PARTS LIST -1

[AV-28H4BU / AV-28H4SU / AV-32H4BU / AV-32H4SU]

△	Ref.No.	Part No.	Part Name	Description	Local
	1	LC41780-001A	JVC MARK		28H4BU,28H4SU,32H4BU,32H4SU
	2	LC32570-001B-C	WINDOW		28H4BU,32H4BU
	2	LC32570-001B	WINDOW		28H4SU,32H4SU
	3	AEM3029-030-E	STICK SHEET		28H4BU,28H4SU,32H4BU,32H4SU
	4	QAS0199-001	SPEAKER	SP01/SP02(x2)	28H4BU,28H4SU,32H4BU,32H4SU
	5	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x8)	28H4BU,28H4SU,32H4BU,32H4SU
△	100	LC11831-002A-U	FRONT CABINET ASSY	Inc. No.101-103 and FRONT PANEL	28H4BU
△	100	LC11831-001A-U	FRONT CABINET ASSY	Inc. No.101-103 and FRONT PANEL	28H4SU
△	100	LC11832-002A-U	FRONT CABINET ASSY	Inc. No.101-103 and FRONT PANEL	32H4BU
△	100	LC11832-001A-U	FRONT CABINET ASSY	Inc. No.101-103 and FRONT PANEL	32H4SU
	101	LC32569-002B-U	POWER KNOB		28H4BU,32H4BU
	101	LC32569-001B-U	POWER KNOB		28H4SU,32H4SU
	102	LC32668-001A	SPRING		28H4BU,28H4SU,32H4BU,32H4SU
	103	LC21424-002B-U	SP PANEL		28H4BU
	103	LC21424-001B-U	SP PANEL		28H4SU
	103	LC11744-002B-U	SP PANEL		32H4BU
	103	LC11744-001B-U	SP PANEL		32H4SU

## EXPLODED VIEW -1

[AV-28H4BU / AV-28H4SU / AV-32H4BU / AV-32H4SU]



## EXPLODED VIEW PARTS LIST -2

[AV-28H40SU / AV-28H77SK / AV-32H40SU / AV-32H77SK]

△ Ref.No.	Part No.	Part Name	Description	Local
1	LC41250-002C-C	JVC MARK		28H40SU,28H77SK,32H40SU,32H77SK
2	LC31851-001B-C	WINDOW		28H40SU,28H77SK,32H40SU,32H77SK
3	LC20508-001D-U	ADAPTER	(x4)	32H40SU,32H77SK
4	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x8)	32H40SU,32H77SK
△ 100	LC11313-007B-U	FRNT CABINET ASSY	Inc.No.101-102	28H40SU,28H77SK
△ 100	LC11360-007B-U	FRONT CABINET ASSY	Inc.No.101-102	32H40SU,32H77SK
101	LC31201-003A-U	POWER KNOB		28H40SU,28H77SK,32H40SU,32H77SK
102	AEM3149-001-E	SPRING		28H40SU,28H77SK,32H40SU,32H77SK

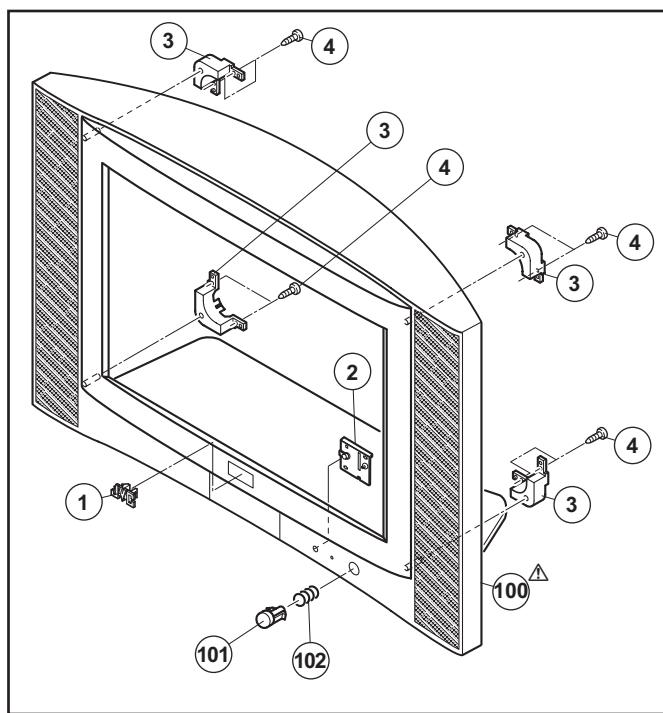
## EXPLODED VIEW PARTS LIST -3

[AV-32H47SU]

△ Ref.No.	Part No.	Part Name	Description	Local
1	LC41522-002C	JVC MARK		
2	LC32229-001B-C	WINDOW		
3	LC20508-001D-U	ADAPTER	(x4)	
4	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x8)	
△ 100	LC11563-001B-U	FRONT CABINET ASSY	Inc.No.101-102	
101	LC31201-003A-U	POWER KNOB		
102	AEM3149-001-E	SPRING		

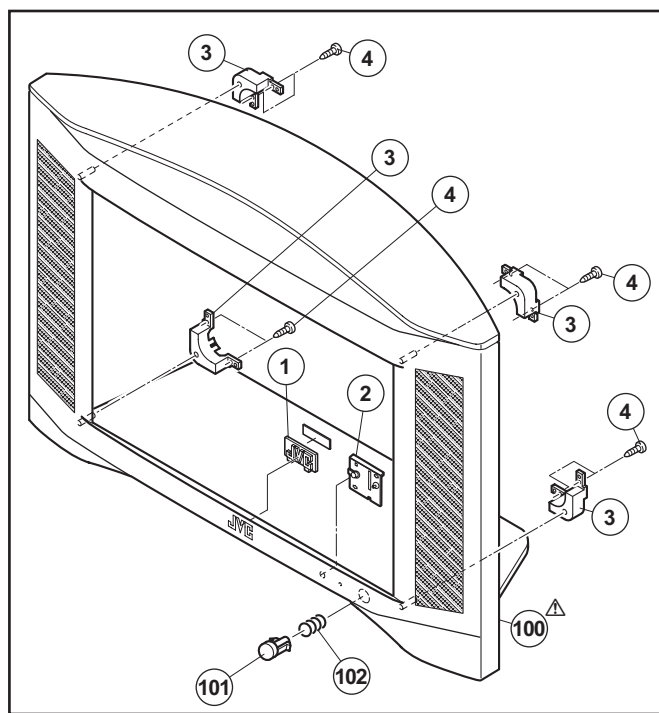
## EXPLODED VIEW -2

[AV-28H40SU / AV-28H77SK / AV-32H40SU / AV-32H77SK]



## EXPLODED VIEW -3

[AV-32H47SU]



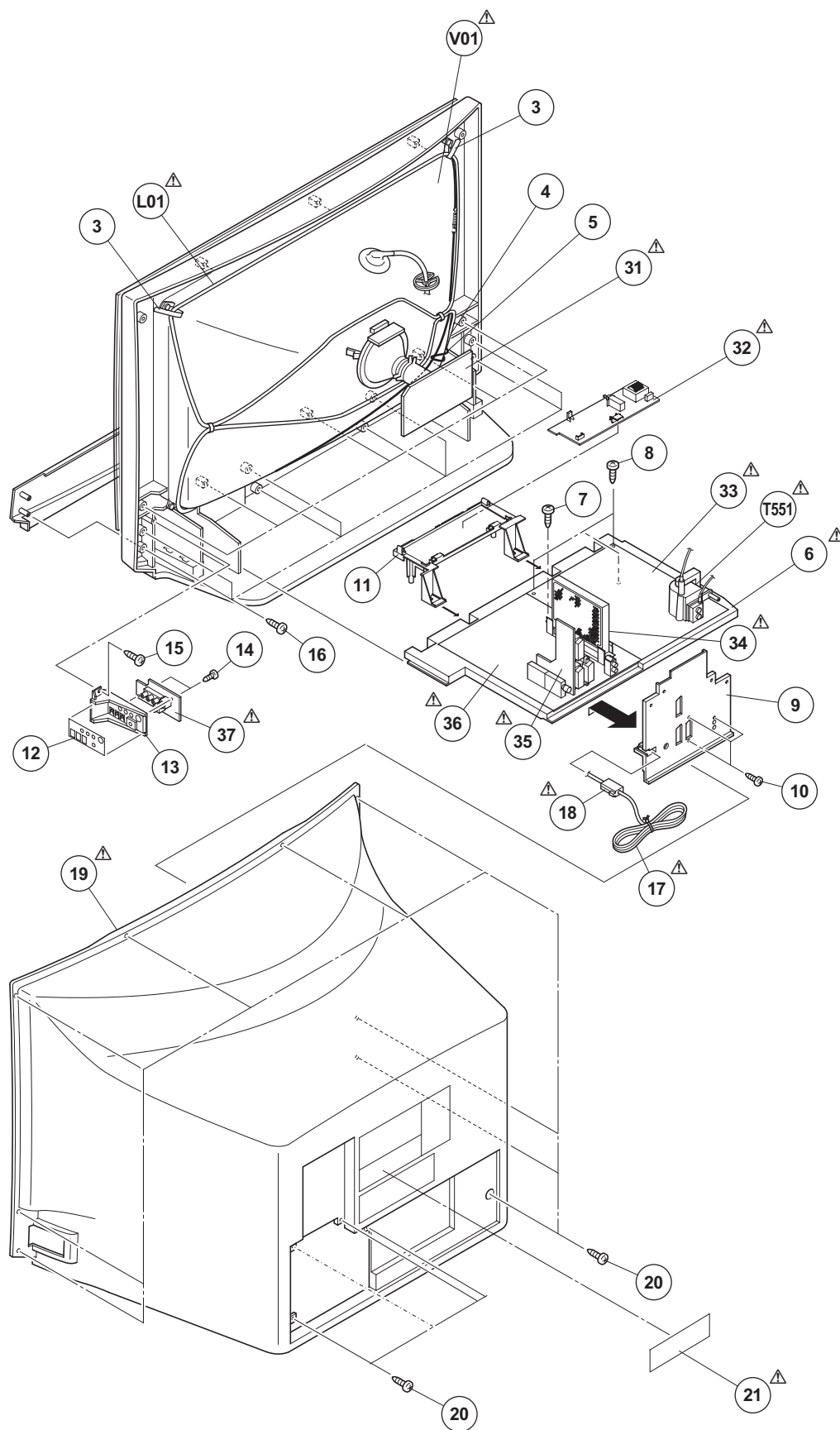
# EXPLODED VIEW PARTS LIST -4

[AV-28H4BU / AV-28H4SU / AV-32H4BU / AV-32H4SU]

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	W66QDE993X995	ITC	Inc.DEF YOKE/PC MAGNET	28H4BU,28H4SU
△	V01	W76QEN691X100	ITC	Inc.DEF YOKE/PC MAGNET	32H4BU,32H4SU
△	L01	QQW0168-002	DEG COIL		28H4BU,28H4SU
△	L01	QQW0169-001	DEG COIL		32H4BU,32H4SU
△	T551	QQH0181-001	FB TRANSF		28H4BU,28H4SU
△	T551	QQH0180-001	FB TRANSF		32H4BU,32H4SU
	3	LC30628-002A	DEG CLAMP	(x4)	28H4BU,28H4SU,32H4BU,32H4SU
	4	WJY0021-001B	BRAIDED ASSY		28H4BU
	4	WJY0021-001A	BRAIDED ASSY		28H4SU
	4	WJY0021-002B	BRAIDED ASSY		32H4BU
	4	WJY0021-002A	BRAIDED ASSY		32H4SU
	5	WJY0013-002A	E-BRAIDED ASSY		28H4BU,28H4SU,32H4BU,32H4SU
△	6	LC10716-002J-U	CHASSIS BASE		28H4BU,28H4SU,32H4BU,32H4SU
	7	QYSBSFG3010Z	TAP SCREW	M3 x 10mm	28H4BU,28H4SU,32H4BU,32H4SU
	8	QYSBSFG3012Z	TAP SCREW	M3 x 12mm(x3)	28H4BU,28H4SU,32H4BU,32H4SU
	9	LC11561-002B-U	AV BOARD		28H4BU,32H4BU
	9	LC11561-001B-U	AV BOARD		28H4SU,32H4SU
	10	QYSBSF3012M	TAP SCREW	3.0mm x 12mm(x3)	28H4BU,28H4SU,32H4BU,32H4SU
	11	LC11795-003B-U	CONTROL BASE		28H4BU,28H4SU
	11	LC11795-004B-U	CONTROL BASE		32H4BU,32H4SU
	12	LC32584-001A-C	CONTROL SHEET		28H4BU,28H4SU,32H4BU,32H4SU
	13	LC11825-002B-U	SIDE CON BASE		28H4BU,32H4BU
	13	LC11825-001B-U	SIDE CON BASE		28H4SU,32H4SU
	14	QYSBSFG3010Z	TAP SCREW	M3 x 10mm(x2)	28H4BU,28H4SU
	14	QYSBSF3010Z	TAP SCREW	3mm x 10mm(x2)	32H4BU,32H4SU
	15	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm	28H4BU,28H4SU,32H4BU,32H4SU
	16	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x8)	28H4BU,28H4SU,32H4BU,32H4SU
△	17	QMPK160-185-JC	POWER CORD(EU)	1.85m BLACK	28H4BU,28H4SU,32H4BU,32H4SU
△	18	CM46618-A01-E	POWER CORD CLMP		28H4BU,28H4SU,32H4BU,32H4SU
△	19	LC11707-003C-U	REAR COVER		28H4BU
△	19	LC11707-001C-U	REAR COVER		28H4SU
△	19	LC11770-003B-U	REAR COVER		32H4BU
△	19	LC11770-001B-U	REAR COVER		32H4SU
	20	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x13)	28H4BU,28H4SU,32H4BU,32H4SU
△	21	LC11852-004A-U	RATING LABEL		28H4BU
△	21	LC11852-003A-U	RATING LABEL		28H4SU
△	21	LC11838-003A-U	RATING LABEL		32H4BU
△	21	LC11838-006A-U	RATING LABEL		32H4SU
△	31	SML-3202A-U2	CRT SOCKET PWB		28H4BU,28H4SU
△	31	SML-3201A-U2	CRT SOCKET PWB		32H4BU,32H4SU
△	32	SML-8201A-U2	FRONT CONTROL PWB		28H4BU,28H4SU,32H4BU,32H4SU
△	33	SML-2202A-U2	POWER&DEF PWB		28H4BU,28H4SU
△	33	SML-2201A-U2	POWER&DEF PWB		32H4BU,32H4SU
△	34	SML0Z202A-U2	100HZ PWB		28H4BU,28H4SU,32H4BU,32H4SU
△	35	SML0J201A-U2	AV JACK PWB		28H4BU,28H4SU,32H4BU,32H4SU
△	36	SML-1202A-U2	MAIN PWB		28H4BU,28H4SU
△	36	SML-1201A-U2	MAIN PWB		32H4BU,32H4SU
△	37	SML-8121A-U2	SIDE CONTROL PWB		28H4BU,28H4SU,32H4BU,32H4SU

# EXPLODED VIEW -4

[AV-28H4BU / AV-28H4SU / AV-32H4BU / AV-32H4SU]



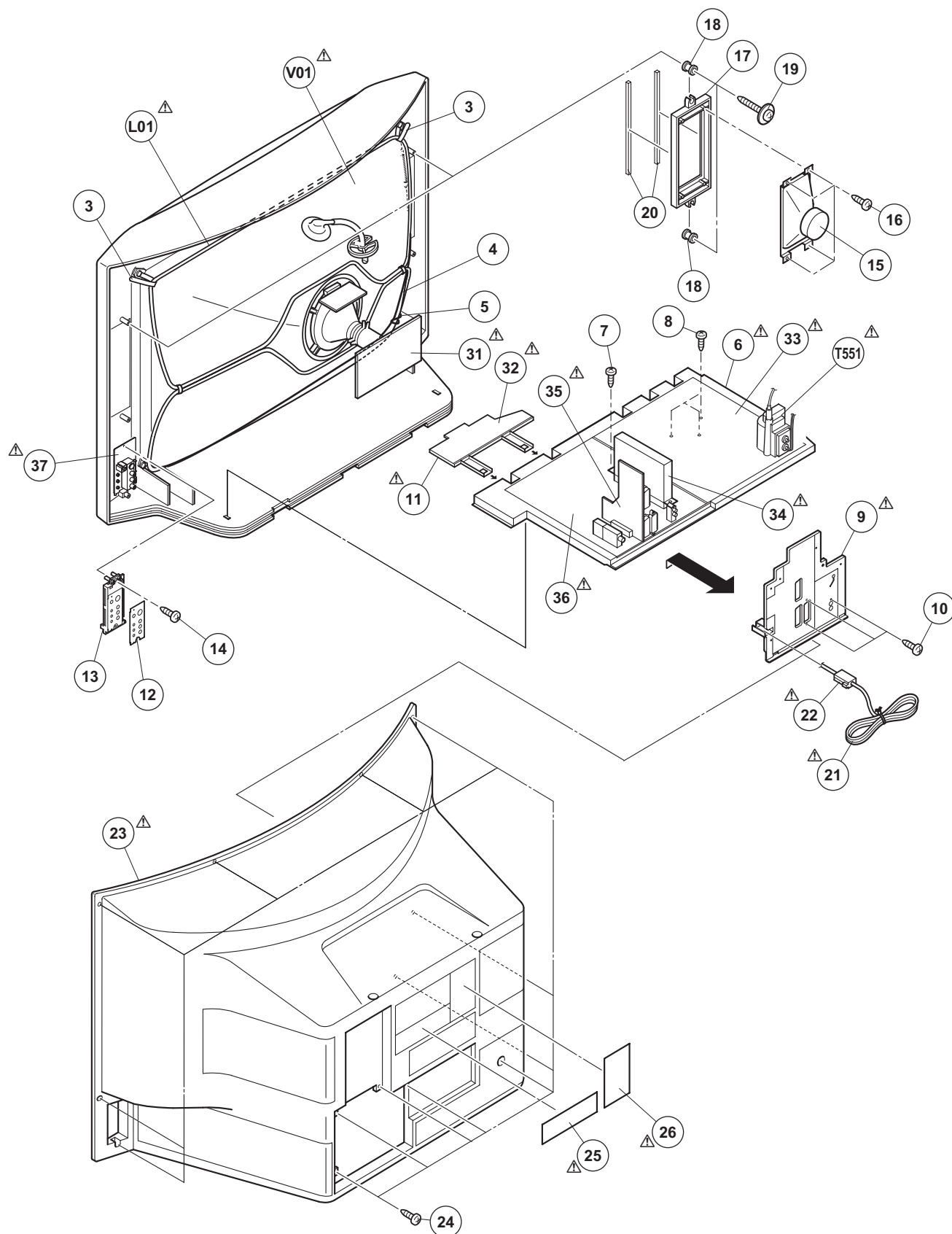
# EXPLODED VIEW PARTS LIST -5

[AV-28H40SU / AV-28H77SK / AV-32H40SU / AV-32H47SU / AV-32H77SK]

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	W66QDE993X995	ITC	Inc.DEF YOKE/PC MAGNET	28H40SU,28H77SK
△	V01	W76QEN691X100	ITC	Inc.DEF YOKE/PC MAGNET	32H40SU,32H47SU,32H77SK
△	L01	QQW0168-001	DEG COIL		28H40SU,28H77SK
△	L01	QQW0169-001	DEG COIL		32H40SU,32H47SU,32H77SK
△	T551	QQH0181-001	FB TRANSF		28H40SU,28H77SK
△	T551	QQH0180-001	FB TRANSF		32H40SU,32H47SU,32H77SK
	3	LC30628-002A	DEG CLAMP	(x4)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	4	WJY0021-001B	BRAIDED ASSY		28H40SU,28H77SK
	4	WJY0021-002B	BRAIDED ASSY		32H40SU,32H47SU,32H77SK
	5	WJY0013-002A	E-BRAIDED ASSY		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
△	6	LC10716-002J-U	CHASSIS BASE		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	7	QYSBSFG3010Z	TAP SCREW	M3 x 10mm	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	8	QYSBSFG3010Z	TAP SCREW	M3 x 10mm(x3)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	9	LC11561-001B-U	AV BOARD		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	10	QYSBSFG3012M	TAP SCREW	3.0mm x 12mm(x3)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	11	LC11311-001B-U	CONTROL BASE		28H40SU,28H77SK
	11	LC11311-002A-U	CONTROL BASE		32H40SU,32H47SU,32H77SK
	12	LC32585-002A-C	CONTROL SHEET		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	13	LC11824-001B-U	SIDE CONT BASE		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	14	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	15	QAS0135-001	SPEAKER	SP01/SP02(x2)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	16	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x8)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	17	LC11310-002A-U	SPEAKER ADAPTER	(x2)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	18	LC40226-003A-H	SPACER	(x4)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	19	LC40506-001A	TAP SCREW	(x4)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
	20	AEM4111-001A-U	SPONGE	(x4)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
△	21	QMPK160-185-JC	POWER CORD(EU)	1.85m BLACK	28H40SU,32H40SU,32H47SU
△	21	QMPN130-185-JC	POWER CORD(EU)	1.85m BLACK	28H77SK,32H77SK
△	22	CM46618-A01-E	POWER CORD CLMP		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
△	23	LC11282-001D-U	REAR COVER		28H40SU,28H77SK
△	23	LC11316-002B-U	REAR COVER		32H40SU,32H47SU,32H77SK
	24	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x13)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
△	25	LC11853-002A-U	RATING LABEL		28H40SU
△	25	LC11364-060A-U	RATING LABEL		28H77SK
△	25	LC11853-001A-U	RATING LABEL		32H40SU
△	25	LC11853-003A-U	RATING LABEL		32H47SU
△	25	LC11364-059A-U	RATING LABEL		32H77SK
△	26	LC30789-002B-U	WARNING LABEL		28H40SU,32H40SU,32H47SU
△	31	SML-3202A-U2	CRT SOCKET PWB		28H40SU,28H77SK
△	31	SML-3201A-U2	CRT SOCKET PWB		32H40SU,32H47SU,32H77SK
△	32	SML-8202A-U2	FRONT CONTROL PWB		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
△	33	SML-2202A-U2	POWER&DEF PWB		28H40SU,28H77SK
△	33	SML-2201A-U2	POWER&DEF PWB		32H40SU,32H47SU,32H77SK
△	34	SML0Z202A-U2	100HZ PWB		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
△	35	SML0J201A-U2	AV JACK PWB		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
△	36	SML-1202A-U2	MAIN PWB		28H40SU
△	36	SML-1922A-U2	MAIN PWB		28H77SK
△	36	SML-1201A-U2	MAIN PWB		32H40SU,32H47SU
△	36	SML-1921A-U2	MAIN PWB		32H77SK
△	37	SML-8122A-U2	SIDE CONTROL PWB		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK

# EXPLODED VIEW -5

[AV-28H40SU / AV-28H77SK / AV-32H40SU / AV-32H47SU / AV-32H77SK]



# PRINTED WIRING BOARD PARTS LIST [AV-28H4BU / AV-28H4SU]

## MAIN P.W. BOARD ASS'Y (SML-1202A-U2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3411GQAC1201	IC	(SERVICE)	C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC201	CXA2089Q-X	IC		C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
IC501	LM324D-X	IC		C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC601	HA17558AF-X	IC		C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC651	AN5277	IC		C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC681	BH3544F-X	IC		C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC701	AT24C32-28H4SU	IC		C010	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
IC901	AN78L08-T	IC		C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC902	MM1565AF-X	IC		C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q001	2SC3928A/QR/-X	TRANSISTOR		C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q002	2SC3928A/QR/-X	TRANSISTOR		C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q101	UN2213-X	DIGI TRANSISTOR		C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q201	2SC3928A/QR/-X	TRANSISTOR		C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q202	2SC3928A/QR/-X	TRANSISTOR		C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q203	2SC3928A/QR/-X	TRANSISTOR		C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q204	2SC3928A/QR/-X	TRANSISTOR		C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q205	2SC3928A/QR/-X	TRANSISTOR		C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q206	2SC3928A/QR/-X	TRANSISTOR		C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q207	UN2226-X	DIGI TRANSISTOR		C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q208	2SC3928A/QR/-X	TRANSISTOR		C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q209	2SC3928A/QR/-X	TRANSISTOR		C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q210	2SA1530A/QR/-X	SI TRANSISTOR		C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q211	UN2226-X	DIGI TRANSISTOR		C124	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q212	2SA1530A/QR/-X	SI TRANSISTOR		C125	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q213	UN2226-X	DIGI TRANSISTOR		C126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q214	UN2226-X	DIGI TRANSISTOR		C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q215	KTA1267/YG-T	TRANSISTOR		C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q216	2SC3928A/QR/-X	TRANSISTOR		C130	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q217	KTC3199/YG-T	TRANSISTOR		C131	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q218	UN2226-X	DIGI TRANSISTOR		C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q219	UN2226-X	DIGI TRANSISTOR		C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q305	KTC3199/YG-T	TRANSISTOR		C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q501	2SC3928A/QR/-X	TRANSISTOR		C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q502	2SC3928A/QR/-X	TRANSISTOR		C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q621	2SA1530A/QR/-X	SI TRANSISTOR		C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q623	UN2226-X	DIGI TRANSISTOR		C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q624	UN2226-X	DIGI TRANSISTOR		C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q628	UN2213-X	DIGI TRANSISTOR		C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q629	2SC3928A/QR/-X	TRANSISTOR		C211	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q632	2SA1530A/QR/-X	SI TRANSISTOR		C212	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q641	2SA1530A/QR/-X	SI TRANSISTOR		C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q642	UN2226-X	DIGI TRANSISTOR		C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q643	UN2226-X	DIGI TRANSISTOR		C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q681	UN2226-X	DIGI TRANSISTOR		C219	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q701	2SA1530A/QR/-X	SI TRANSISTOR		C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q702	2SC3928A/QR/-X	TRANSISTOR		C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D201	MA8120/M/-X	Z DIODE		C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D202	MA8120/M/-X	Z DIODE		C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D203	MA8120/M/-X	Z DIODE		C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D204	MA8120/M/-X	Z DIODE		C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D205	MA8120/M/-X	Z DIODE		C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D206	MA8120/M/-X	Z DIODE		C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D207	MA8120/M/-X	Z DIODE		C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D208	MA8120/M/-X	Z DIODE		C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D209	MA8120/M/-X	Z DIODE		C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D501	MA111-X	SI DIODE		C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D502	MA111-X	SI DIODE		C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D503	MA111-X	SI DIODE		C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D504	MA111-X	SI DIODE		C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D623	MA111-X	SI DIODE		C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D624	MA111-X	SI DIODE		C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D626	MA111-X	SI DIODE		C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D627	MA111-X	SI DIODE		C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D629	MA111-X	SI DIODE		C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
D630	MA111-X	SI DIODE		C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D631	MA111-X	SI DIODE		C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D633	MA111-X	SI DIODE		C309	NCB31HK-102X	C CAPACITOR	1000pF 50V K
D651	MA8330/L/-X	Z DIODE		C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D653	MA8330/L/-X	Z DIODE		C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
D681	MA111-X	SI DIODE		C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D701	MA8056/M/-X	Z DIODE		C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D702	MA8056/M/-X	Z DIODE		C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D703	MA8056/M/-X	Z DIODE		C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D704	MA8056/M/-X	Z DIODE		C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D705	MA111-X	SI DIODE		C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D981	MA111-X	SI DIODE		C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
D982	MA111-X	SI DIODE		C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C601	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
				C603	QETN1CM-107Z	E CAPACITOR	100uF 16V M
				C604	NCB31HK-153X	C CAPACITOR	0.015uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C605	NCB31HK-122X	C CAPACITOR	1200pF 50V K	R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C606	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C607	NCB31HK-122X	C CAPACITOR	1200pF 50V K	R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C608	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C609	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C610	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C611	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C641	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C642	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C643	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C644	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C650	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C651	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R248	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C652	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C654	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R250	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C657	QETM1VM-228	E CAPACITOR	2200uF 35V M	R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C663	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C664	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R253	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C681	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R255	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C682	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R256	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C683	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R257	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C684	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C685	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C686	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C688	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C689	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C691	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C692	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R007	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R009	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R010	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R203	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R292	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R311	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R312	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R313	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R315	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R222	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R223	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R224	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R225	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R227	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R229	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R231	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
				R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J



△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R526	NRSA63J-683X	MG RESISTOR	68kΩ	1/16W J	K642	NQR0199-001X	FERRITE BEADS		
R527	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J	LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
R528	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	TU001	QAU0276-002	TUNER		
R529	NRSA63J-823X	MG RESISTOR	82kΩ	1/16W J	X101	QAX0773-001Z	CRYSTAL	18.432000MHz	
R530	NRSA63J-105X	MG RESISTOR	1MΩ	1/16W J	<b>POWER&amp;DEF P.W. BOARD ASS'Y (SML-2202A-U2)</b>				
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	△Ref No.	Part No.	Part Name	Description	Local
R532	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J	IC401	AN15526A	IC		
R533	NRSA63J-272X	MG RESISTOR	2.7kΩ	1/16W J	IC461	LM393P	IC		
R536	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J	IC901	STR-F6267S-F7	IC		
R537	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J	△IC941	QAL0515-001	POWER MODULE		
R601	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	IC951	SE140N	IC		
R602	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	IC961	BA12T	IC		
R603	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	IC962	L7809CP	IC		
R604	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J					
R605	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	Q461	RDN050N20	POWER MOS FET		
R606	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	Q462	KTC3199/YG/-T	TRANSISTOR		
R607	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	Q463	KTC3199/YG/-T	TRANSISTOR		
R608	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	Q464	KTA1267/YG/-T	TRANSISTOR		
R609	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	Q481	DTC124ESA-T	DIGI TRANSISTOR		
R610	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	Q482	KTC3199/YG/-T	TRANSISTOR		
R611	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	Q501	BSN304-T	MOS FET		
R612	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	△Q521	2SC5904-RL	POW TRANSISTOR		
R613	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	Q581	2SA1208/ST/Z1-T	TRANSISTOR		
R621	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	Q582	DTC144ESA-T	DIGI TRANSISTOR		
R623	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	Q583	KTC3199/YG/-T	TRANSISTOR		
R624	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	Q941	KTC3199/YG/-T	TRANSISTOR		
R629	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	Q942	KTC3199/YG/-T	TRANSISTOR		
R631	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J					
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J	D402	1SR35-400A-T2	SI DIODE		
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J	D461	RGP10J-04TS-T3	SI DIODE		
R637	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D462	1SS133-T2	DIODE		
R638	NRSA63J-273X	MG RESISTOR	27kΩ	1/16W J	D463	1SS133-T2	DIODE		
R641	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D481	1SS133-T2	DIODE		
R642	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	D501	1SS81-T5	SI DIODE		
R643	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	D521	V11CA-C1	SI DIODE		
R644	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D522	FMV-3FU-F1	SI DIODE		
R645	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D523	MTZJ22B-T2	Z DIODE		
R650	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D525	RGP10J-04TS-T3	SI DIODE		
R651	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	D541	RGP10J-04TS-T3	SI DIODE		
R652	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	D542	MTZJ3.9B-T2	Z DIODE		
R653	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D551	RGP10J-04TS-T3	SI DIODE		
R654	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D552	RGP10J-04TS-T3	SI DIODE		
R655	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D553	RH1S-T3	SI DIODE		
R657	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D582	MTZJ7.5B-T2	Z DIODE		
R661	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	D583	MTZJ7.5S-T2	Z DIODE		
R673	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D584	RGP10J-04TS-T3	SI DIODE		
R681	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D901	TS4B05G	BRIDGE DIODE		
R682	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D902	RG1C-LFA1	SI DIODE		
R683	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D904	EU2-T2	FR DIODE		
R684	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D905	1SS133-T2	DIODE		
R685	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D906	MTZJ27B-T2	Z DIODE		
R688	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D907	1SS133-T2	DIODE		
R689	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D910	MTZJ15B-T2	Z DIODE		
R702	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D911	MTZJ15B-T2	Z DIODE		
R703	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D931	S1WB/A/60-4101	BRIDGE DIODE		
R704	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D945	1SS133-T2	DIODE		
R705	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D951	RU4AM-LFT2	SI DIODE		
R706	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	D952	RU4AM-LFT2	SI DIODE		
R707	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	D953	RGP10J-04TS-T3	SI DIODE		
R708	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D954	RU3YX-LFC4	SI DIODE		
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	D956	FMX-G12S	SI DIODE		
R710	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D958	MTZJ33B-T2	Z DIODE		
L001	QQL244K-270Z	PEAKING COIL	27uH	K	D959	1SS133-T2	DIODE		
L002	QQL244K-100Z	PEAKING COIL	10uH	K	D981	1SS133-T2	DIODE		
L003	QQL244K-100Z	PEAKING COIL	10uH	K	D982	1SS133-T2	DIODE		
L101	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J	D983	1SS133-T2	DIODE		
L102	QQL244K-4R7Z	PEAKING COIL	4.7uH	K					
CN001	QGB1505J1-35	CONNECTOR	B-B	(1-35)	C404	QCZ0120-104Z	C CAPACITOR	0.1uF 25V Z	
CN002	QGC2507C1-96	CONNECTOR	B-B	(1-96)	C405	QDC31HJ-820Z	C CAPACITOR	82pF 50V J	
CN003	QGB1506L1-16	CONNECTOR	B-B	(1-16)	C406	QETM1VM-108	E CAPACITOR	1000uF 35V M	
CN004	QGB1506L1-16	CONNECTOR	B-B	(1-16)	C408	QETN1VM-337Z	E CAPACITOR	330uF 35V M	
CN005	QGB1506L1-16	CONNECTOR	B-B	(1-16)	C409	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
CN00B	QJK002-041614	SIN CR C-B WIRE			C410	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
CN00F	QGA2501C1-12	CONNECTOR	W-B	(1-12)	C411	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
CN00K	QGA2501C5-05Z	CONNECTOR	W-B	(1-5)	C414	QCB31HK-682Z	C CAPACITOR	6800pF 50V K	
CN00R	QGA2501C1-09	CONNECTOR	W-B	(1-9)	C415	QCS31HJ-470Z	C CAPACITOR	47pF 50V J	
CN0C1	QGA2501F1-06	CONNECTOR	W-B	(1-6)	C461	QEZ0414-226	BP E CAPACITOR	22uF 50V M	
CN0SL	QGA2501C5-04Z	CONNECTOR	W-B	(1-4)	C462	QFM72DJ-152Z	M CAPACITOR	1500pF 200V J	
CN0SR	QGA2501C5-03Z	CONNECTOR	W-B	(1-3)	C463	QFM72DJ-152Z	M CAPACITOR	1500pF 200V J	
HS651	LC32265-001A	HEAT SINK/AL-F/			C464	QCZ0120-104Z	C CAPACITOR	0.1uF 25V Z	
J001	QNN0596-001	PIN JACK	L/R OUT		C465	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
K001	NQR0389-003X	FERRITE BEADS							
K101	NQR0389-003X	FERRITE BEADS							
K102	NQR0389-003X	FERRITE BEADS							
K641	NQR0199-001X	FERRITE BEADS							

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C466	QFP31HJ-272Z	PP CAPACITOR	2700pF 50V J	R477	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
C467	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	R478	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
C468	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R481	QRE141J-274Y	C RESISTOR	270kΩ 1/4W J
C470	QCS31HJ-470Z	C CAPACITOR	47pF 50V J	R482	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C471	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	R501	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
C481	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R502	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J
C501	QCB32HK-331Z	C CAPACITOR	330pF 500V K	R503	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
C502	QFM72DK-103	M CAPACITOR	0.01uF 200V K	R504	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
C503	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	R505	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
C521	QFZ0122-112	MPP CAPACITOR	1100pF 1.8kV H	R506	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
C522	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	R521	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
C523	QFM72DJ-393	M CAPACITOR	0.039uF 200V J	R522	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
C524	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	R523	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C526	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	R524	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
C527	QFZ0197-124	MPP CAPACITOR	0.12uF 250V J	R525	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C529	QFZ0197-154	MPP CAPACITOR	0.15uF 250V J	R541	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	R542	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C531	QFZ0194-534	MPP CAPACITOR	0.53uF 250V J	R543	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J
C532	QETM2CM-227	E CAPACITOR	220uF 160V M	R551	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
C533	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	R552	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
C541	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	R581	QRF154K-4R7	UNF WW RESISTOR	4.7Ω 15W K
C551	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	R582	QRE141J-681Y	C RESISTOR	680Ω 1/4W J
C552	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R583	QRE121J-682Y	C RESISTOR	6.8kΩ 1/2W J
C553	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	R584	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J
C554	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R585	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C556	QETN2EM-106Z	E CAPACITOR	10uF 250V M	R586	QRA14CF-7501Y	CMF RESISTOR	7.5kΩ 1/4W F
C558	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R587	QRA14CF-2101Y	CMF RESISTOR	2.1kΩ 1/4W F
C581	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R588	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C582	QETN1EM-476Z	E CAPACITOR	47uF 25V M	△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
C583	QETN2AM-106Z	E CAPACITOR	10uF 100V M	R901	QRE121J-331Y	C RESISTOR	330Ω 1/2W J
C584	QETN1AM-227Z	E CAPACITOR	220uF 10V M	R902	QRF054K-3R3	UNF WW RESISTOR	3.3Ω 5W K
△C901	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	R903	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K
△C902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	R904	QRL039J-683	OMF RESISTOR	68kΩ 3W J
△C903	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	R905	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
△C904	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R906	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
△C905	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R908	QRL039J-823	OMF RESISTOR	82kΩ 3W J
△C906	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R909	QRL039J-823	OMF RESISTOR	82kΩ 3W J
C907	QEZO649-227	E CAPACITOR	220uF 400V M	R910	QRE121J-680Y	C RESISTOR	68Ω 1/2W J
C908	QCB32HK-103	C CAPACITOR	0.01uF 500V K	R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
C909	QCZ0340-391	C CAPACITOR	390pF 2kV K	R914	QRM059J-R10	MP RESISTOR	0.1Ω 5W J
C910	QETN1HM-476Z	E CAPACITOR	47uF 50V M	R915	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
C911	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	R916	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
C912	QCZ0340-561	C CAPACITOR	560pF 2kV K	R917	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J
C914	QCB31HK-221Z	C CAPACITOR	220pF 50V K	R944	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C915	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	R945	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
C916	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	R946	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C917	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R949	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J
△C931	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R951	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
△C932	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R952	QRL039J-223	OMF RESISTOR	22kΩ 3W J
△C933	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R953	QRT039J-R33	MF RESISTOR	0.33Ω 3W J
C934	QEZO632-226	E CAPACITOR	22uF 400V M	R954	QRT039J-1R5	MF RESISTOR	1.5Ω 3W J
C941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M	R981	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J
C942	QETN1AM-337Z	E CAPACITOR	330uF 10V M	R982	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C951	QEZO203-227	E CAPACITOR	220uF 160V M	△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
C952	QEZO255-228	E CAPACITOR	2200uF 16V M				
C953	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	L461	QQR1195-001	CHOKE COIL	
C954	QETM1VM-228	E CAPACITOR	2200uF 35V M	L462	QQR1422-001	CHOKE COIL	
C956	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	L521	QQLZ031-180	CHOKE COIL	18uH
C957	QETN1AM-477Z	E CAPACITOR	470uF 10V M	L522	QQR1191-002	LINEARITY COIL	
C959	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	L551	QQLZ026-540	COIL	54uH ±7%
C960	QCZ0325-821	C CAPACITOR	820pF 2kV K	L901	QQL401K-100Z	CHOKE COIL	10uH K
C968	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	L902	QQL401K-100Z	CHOKE COIL	10uH K
△C991	QCZ9079-222	C CAPACITOR	2200pF AC250V M	△L903	QQR1200-001	CHOKE COIL	
△C993	QCZ9079-471	C CAPACITOR	470pF AC250V K	L941	QQL26AM-4R7Z	CHOKE COIL	4.7uH M
				L942	QQL26AK-220Z	CHOKE COIL	22uH K
				L951	QQLZ026-460	COIL	46uH ±7%
R401	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	T501	QQR1111-001	LIN COIL	
R402	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	△T901	QQS0258-001	SW TRANSF	
R403	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J				
R404	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)
R405	QRL029J-151	OMF RESISTOR	150Ω 2W J	CN004	QGB1506M1-16	CONNECTOR	B-B (1-16)
R406	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	CN005	QGB1506M1-16	CONNECTOR	B-B (1-16)
R407	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	CN00G	QGA2501C5-06Z	CONNECTOR	W-B (1-6)
R408	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	CN00W	QGA7901C1-02	CONNECTOR	W-B (1-2)
R409	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	CN00X	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
R410	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	CN0HV	CHC802T-05N-J	LV CONNECTOR	
R461	QRG029J-820	OMF RESISTOR	82Ω 2W J	△CP931	QMFZ052-2R0-E	FUSE	2A
R462	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	△CP951	ICP-N75-Y	IC PROTECTOR	2.7A
R463	QRA14CF-9101Y	CMF RESISTOR	9.1kΩ 1/4W F	△CP952	ICP-N75-Y	IC PROTECTOR	2.7A
R464	QRX01GJ-2R7	MF RESISTOR	2.7Ω 1W J	△CP954	ICP-N75-Y	IC PROTECTOR	2.7A
R468	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	HS401	LC30416-002A	HEAT SINK/AL-F/	
R469	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	HS461	CEHT11B-002QS	HEAT SINK	
R471	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	HS521	LC31212-001B	HEAT SINK/AL-F/	
R472	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F	HS522	CEHT11B-006QS	HEAT SINK	
R473	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	HS901	LC30774-001A	HEAT SINK/AL-F/	
R474	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	HS956	CEHT11B-002QS	HEAT SINK	
R475	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	HS961	CEHT11B-002QS	HEAT SINK	
R476	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J				

△Ref No.	Part No.	Part Name	Description Local
K401	QQR0621-002Z	FERRITE BEADS	
K522	CE41832-001	LEAD CORE	
K523	CE41832-001	LEAD CORE	
K524	CE41832-001	LEAD CORE	
K901	QQR0679-001	FERRITE BEADS	
K952	QQR0621-002Z	FERRITE BEADS	
K953	QQR0621-002Z	FERRITE BEADS	
K955	QQR0621-002Z	FERRITE BEADS	
△LF901	QQR1095-001	LINE FILTER	
△PC901	PC123Y22FZ	PHOTO COUPLER	
△RY941	QSK0099-001	RELAY	
△TH901	CEKP002-003	W POSISTOR	

## CRT SOCKET P.W. BOARD ASS'Y (SML-3202A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC3201	TDA6111Q	IC	
IC3202	TDA6111Q	IC	
IC3203	TDA6111Q	IC	
Q3104	2SC3928A/QR/-X	TRANSISTOR	
Q3105	2SC1627A/OY/-T	SI TRANSISTOR	
Q3108	2SA2005/DE/-	POW TRANSISTOR	
Q3109	2SC5511/DE/-	POW TRANSISTOR	
Q3301	2SA1530A/QR/-X	SI TRANSISTOR	
Q3303	2SA1530A/QR/-X	SI TRANSISTOR	
Q3304	2SC3928A/QR/-X	TRANSISTOR	
D3102	MA111-X	SI DIODE	
D3103	RH1S-T3	SI DIODE	
D3104	RH1S-T3	SI DIODE	
D3201	EU01N-T2	SI DIODE	
D3202	EU01N-T2	SI DIODE	
D3203	EU01N-T2	SI DIODE	
D3204	RM2C-LFA1	SI DIODE	
D3205	1SR124-400A-T2	SI DIODE	
D3206	1SR124-400A-T2	SI DIODE	
D3207	1SR124-400A-T2	SI DIODE	
D3208	MA8062/M/-X	Z DIODE	
D3209	MA8130/H/-X	Z DIODE	
D3210	MA8130/H/-X	Z DIODE	
D3301	MA111-X	SI DIODE	
D3302	MA111-X	SI DIODE	
D3303	MA111-X	SI DIODE	
D3306	MA8036-X	Z DIODE	
C3106	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C3107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C3110	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3111	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3113	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3114	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3116	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3117	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3118	QETN1AM-337Z	E CAPACITOR	330uF 10V M
C3120	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C3201	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3202	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3203	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3205	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3206	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3207	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3208	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3209	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3210	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3211	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3212	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3213	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3214	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3215	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3216	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C3218	QETM2EM-336	E CAPACITOR	33uF 250V M
C3219	QFZ0097-223	MM CAPACITOR	0.022uF 1.25KV M
C3221	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3222	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3223	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3224	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3225	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3303	NCB31CK-563X	C CAPACITOR	0.056uF 16V K
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3109	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R3112	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3114	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3115	NRSA63J-560X	MG RESISTOR	56kΩ 1/16W J
R3116	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R3117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R3122	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3123	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3124	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3125	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3126	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3127	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3128	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3129	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3130	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3131	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3132	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J
R3133	QRL029J-681	OMF RESISTOR	680Ω 2W J
△R3134	QRZ9021-561	FUSI RESISTOR	560Ω 1W J
R3201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3208	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R3209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3218	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3219	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3220	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3223	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3224	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3225	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3226	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3227	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3228	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3230	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R3231	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R3232	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R3234	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R3235	QRC121K-102Z	COMP RESISTOR	1kΩ 1/2W K
R3236	QRZ0107-105Z	C RESISTOR	1MΩ 1/2W K
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3239	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3240	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3241	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3242	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3301	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3302	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3304	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3305	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3306	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R3308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3311	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3312	NRSA63J-120X	MG RESISTOR	12Ω 1/16W J
R3313	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J

L3204	QQL26AJ-102Z	PEAKING COIL	1mH J
CN300G	QJK002-063231	SIN CR C-B WIRE	
CN300R	QJB003-093626	SIN ID C-B WIRE	
CN30E1	CE41507-001P	LV CONNECTOR	
CN30SC	QGZ0017C1-01Z	CONNECTOR	(1-1)
CN3VM2	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
HS3101	CEHP00N-001QS	HEAT SINK	
HS3102	CEHP00N-001QS	HEAT SINK	
HS3201	LC31150-002A	HEAT SINK/AL-F1	
HS3202	LC31150-002A	HEAT SINK/AL-F1	
HS3203	LC31150-002A	HEAT SINK/AL-F1	
K3101	QQR1114-001Z	FERRITE BEADS	
K3103	QQR1114-001Z	FERRITE BEADS	
K3104	QQR1114-001Z	FERRITE BEADS	
K3105	QQR0621-002Z	FERRITE BEADS	
K3202	QQR0679-001	FERRITE BEADS	
SG3201	QAF0056-501Z	SURGE ABSORBER	500V M
SG3202	QAF0056-501Z	SURGE ABSORBER	500V M
SG3203	QAF0056-501Z	SURGE ABSORBER	500V M
△SK3001	QNZ0536-001	CRT SOCKET	

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8121A-U2)

△Ref No.	Part No.	Part Name	Description Local
C8101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C8102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description	Local
C8103	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C8104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C8131	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8132	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8133	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R8111	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R8112	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R8113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8133	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
L8111	QQL244K-5R6Z	PEAKING COIL	5.6uH K	
L8112	QQL244K-5R6Z	PEAKING COIL	5.6uH K	
L8131	QQL244K-270Z	PEAKING COIL	27uH K	
L8132	QQL244K-270Z	PEAKING COIL	27uH K	
CN810F	QGA2501F1-12	CONNECTOR	W-B (1-12)	
CN810K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)	
J8111	QMS3001-C01	3.5 JACK	HEADPHONE	
J8131	QNN0591-001	PIN JACK	V/L/R IN	
J8132	QND0084-001	S JACK	S IN	
K8111	NQR0389-003X	FERRITE BEADS		
K8131	NQR0389-003X	FERRITE BEADS		
S8101	QSW0619-003Z	TACT SWITCH	CH+	
S8102	QSW0619-003Z	TACT SWITCH	MENU	
S8103	QSW0619-003Z	TACT SWITCH	CH-	

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8201A-U2)

△Ref No.	Part No.	Part Name	Description	Local
IC8851	GP1UM281QK	IR DETECT UNIT	38kHz	
Q8801	UN2212-X	TRANSISTOR		
D8801	LSR22440	LED	POWER	
D8851	MA8068/M/-X	Z DIODE		
C8851	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8852	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
△C8901	QFZ9072-474	MM CAPACITOR	0.47uF AC250V K	
R8801	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R8802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R8804	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
CN800B	QGA2501C5-04Z	CONNECTOR	W-B (1-4)	
CN800W	CHGH0001-AB	CONNECTOR ASSY		
CN80PW	QGAB801F1-02	CONNECTOR	W-B (1-2)	
△F8901	QMF51D2-3R15-J1	FUSE	3.15A AC250V	
△LF8901	QQR1095-001	LINE FILTER		
△S8901	QSW0824-001	PUSH SWITCH	POWER	

## AV JACK P.W. BOARD ASS'Y (SML0J201A-U2)

△Ref No.	Part No.	Part Name	Description	Local
D121	MTZJ5.6B-T2	Z DIODE		
D0101	MA8056/M/-X	Z DIODE		
D0102	MA8056/M/-X	Z DIODE		
D0103	MA8056/M/-X	Z DIODE		
D0104	MA8056/M/-X	Z DIODE		
D0115	MA8056/M/-X	Z DIODE		
D0116	MA8056/M/-X	Z DIODE		
D0117	MA8056/M/-X	Z DIODE		
D0118	MA8056/M/-X	Z DIODE		
D0119	MA8056/M/-X	Z DIODE		
C0101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0106	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C0107	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0108	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C0109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0110	NCB31HK-472X	C CAPACITOR	4700pF 50V K	

△Ref No.	Part No.	Part Name	Description	Local
R0101	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0105	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0106	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0107	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0108	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0109	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0204	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
CN0001	QGB1505K1-35	CONNECTOR	B-B (1-35)	
J0001	QNZ0465-001	21P CONNECTOR	EXT-2/EXT-3	
J0002	QNZ0463-001	21P CONNECTOR	EXT-1	
K0101	NQR0389-003X	FERRITE BEADS		
K0102	NQR0389-003X	FERRITE BEADS		
K0103	NQR0389-003X	FERRITE BEADS		

## 100HZ P.W. BOARD ASS'Y (SML0Z202A-U2)

△Ref No.	Part No.	Part Name	Description	Local
IC001	SDA6000-B12	IC		
IC002	S-80828CNNB-W	IC		
IC003	K4S641632H-TC75	IC(DIGITAL)		
IC004	MR27T1602F18NTN	IC		
IC191	PQ2L3252MS-X	IC		
IC201	VSP9402A-VK-B13	IC		
IC301	DDP3315C-QA-G3	IC		
IC901	R1170H181B-X	IC		
IC902	MM1563DF-X	IC		
IC903	MM1565AF-X	IC		
Q013	2SK1830-X	MOS FET		
Q014	2SK1830-X	MOS FET		
Q101	2SC3928A/QR/-X	TRANSISTOR		
Q201	2SA1530A/QR/-X	SI TRANSISTOR		
Q202	2SA1530A/QR/-X	SI TRANSISTOR		
Q203	2SA1530A/QR/-X	SI TRANSISTOR		
Q301	2SA1530A/QR/-X	SI TRANSISTOR		
Q302	2SC3928A/QR/-X	TRANSISTOR		
Q304	2SC4672/PQ/-W	POW TRANSISTOR		
Q305	2SA1530A/QR/-X	SI TRANSISTOR		
Q306	2SA1530A/QR/-X	SI TRANSISTOR		
Q307	2SA1530A/QR/-X	SI TRANSISTOR		
QA002	UMX1N-W	PAIR TRANSISTOR		
QA003	UMX1N-W	PAIR TRANSISTOR		
QA004	UMT1N-W	PAIR TRANSISTOR		
QA301	UMX1N-W	PAIR TRANSISTOR		
QA302	UMT1N-W	PAIR TRANSISTOR		
D001	MA111-X	SI DIODE		
D002	MA111-X	SI DIODE		
D003	MA8068/M/-X	Z DIODE		
D005	RSa6.1J4-W	SI DIODE		
D006	MA8039/H/-X	Z DIODE		
D007	MA8039/H/-X	Z DIODE		
D301	DA221-X	DIODE ARRAY		
D302	DA221-X	DIODE ARRAY		
D303	DA221-X	DIODE ARRAY		
D304	DA221-X	DIODE ARRAY		
D305	MA111-X	SI DIODE		
D306	DA221-X	DIODE ARRAY		
D307	MA8039/H/-X	Z DIODE		
D308	MA8033-X	Z DIODE		
C001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C019	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C020	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C021	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C022	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C023	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C025	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C027	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C028	NEH70GM-227X	E CAPACITOR	220uF 4V M	
C029	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C331	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C036	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C332	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C333	NEH71CM-106X	E CAPACITOR	10uF 16V M
C038	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C334	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C335	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C040	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C336	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C041	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C338	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C901	NEH71CM-106X	E CAPACITOR	10uF 16V M
C043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C902	NEH71CM-106X	E CAPACITOR	10uF 16V M
C045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C903	NCB10JK-106X	C CAPACITOR	10uF 6.3V K
C046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C904	NEH71CM-106X	E CAPACITOR	10uF 16V M
C047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C905	NEH71CM-106X	E CAPACITOR	10uF 16V M
C048	NEH71CM-476X	E CAPACITOR	47uF 16V M	C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K
C049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C907	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C908	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C051	NEH71CM-476X	E CAPACITOR	47uF 16V M	C909	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K
C052	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C910	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C053	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C911	NEH71CM-106X	E CAPACITOR	10uF 16V M
C054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C912	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C055	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C913	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K
C056	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C914	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C057	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C915	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C059	NEH71CM-106X	E CAPACITOR	10uF 16V M	C916	NEH71CM-106X	E CAPACITOR	10uF 16V M
C060	NEH71CM-106X	E CAPACITOR	10uF 16V M	C917	NEH71CM-106X	E CAPACITOR	10uF 16V M
C061	NEH71CM-106X	E CAPACITOR	10uF 16V M	C918	NEH71CM-106X	E CAPACITOR	10uF 16V M
C062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R001	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C068	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C191	NEH70GM-227X	E CAPACITOR	220uF 4V M	R005	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C192	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R006	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C193	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C194	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C195	NEH70JM-107X	E CAPACITOR	100uF 6.3V M	R009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C196	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C197	NEH70GM-227X	E CAPACITOR	220uF 4V M	R011	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C201	NDC31HJ-331X	C CAPACITOR	330pF 50V J	R012	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C202	NDC31HJ-331X	C CAPACITOR	330pF 50V J	R013	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C203	NDC31HJ-331X	C CAPACITOR	330pF 50V J	R014	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C204	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R015	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C205	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R016	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C206	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C207	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C208	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R019	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C209	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R022	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C211	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R024	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C212	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R027	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R030	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C214	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R032	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C215	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R034	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C219	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R035	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C220	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R036	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C221	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R037	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C222	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R038	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R043	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C225	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R044	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C226	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R054	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
C227	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C228	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C229	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R058	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C230	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C231	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C301	NEH71HM-105X	E CAPACITOR	1uF 50V M	R061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C303	NDC31HJ-180X	C CAPACITOR	18pF 50V J	R087	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C304	NDC31HJ-180X	C CAPACITOR	18pF 50V J	R089	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C305	NEH71HM-105X	E CAPACITOR	1uF 50V M	R090	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C306	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R091	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C307	NDC31HJ-561X	C CAPACITOR	560pF 50V J	R092	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C308	NEH71HM-105X	E CAPACITOR	1uF 50V M	R093	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C309	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R094	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C311	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R095	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C312	NCB31HK-562X	C CAPACITOR	5600pF 50V K	R096	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C313	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	R097	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C314	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	R098	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C315	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	R099	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C316	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	R100	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C319	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C320	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C321	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R110	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C322	NEH71HM-335X	E CAPACITOR	3.3uF 50V M	R111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C323	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R112	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C324	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R113	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C325	NEH71CM-106X	E CAPACITOR	10uF 16V M	R114	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C329	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R115	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C330	NEH71CM-106X	E CAPACITOR	10uF 16V M				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R116	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R336	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R124	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R337	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R126	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R338	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R127	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R339	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R128	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R341	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R129	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R342	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R130	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R343	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R131	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R344	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R345	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R134	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R346	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R135	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R347	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R136	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R348	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R137	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R349	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R138	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R350	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R351	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R141	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R352	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R142	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	R353	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R143	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R354	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R147	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R355	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R151	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	R357	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R152	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R153	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R359	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R154	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R360	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R155	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R362	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R156	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R901	NRS12BJ-101W	MG RESISTOR	100Ω 1/2W J
R158	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R902	NRS12BJ-101W	MG RESISTOR	100Ω 1/2W J
R165	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R904	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R169	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R905	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R170	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R171	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R172	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA003	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA004	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R174	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RA005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R175	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA006	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R176	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R177	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA008	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R201	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L001	NQL092K-4R7X	COIL	4.7uH K
R202	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L003	NQL092K-4R7X	COIL	4.7uH K
R203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L005	NQL092K-4R7X	COIL	4.7uH K
R204	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L006	NQL092K-4R7X	COIL	4.7uH K
R205	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L007	NQL092K-4R7X	COIL	4.7uH K
R206	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L008	NQL092K-4R7X	COIL	4.7uH K
R207	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L009	NQL034K-4R7X	COIL	4.7uH K
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L010	NQL092K-4R7X	COIL	4.7uH K
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L011	NQL092K-4R7X	COIL	4.7uH K
R210	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L012	NQL092K-4R7X	COIL	4.7uH K
R211	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L013	NQL092K-4R7X	COIL	4.7uH K
R212	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L014	NQL092K-4R7X	COIL	4.7uH K
R213	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	L015	NQL034K-4R7X	COIL	4.7uH K
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L016	NQL034K-4R7X	COIL	4.7uH K
R215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L020	NQL092K-1R5X	COIL	1.5uH K
R216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L021	NQL092K-1R5X	COIL	1.5uH K
R217	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L201	NQL092K-3R3X	COIL	3.3uH K
R218	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L202	NQL092K-3R3X	COIL	3.3uH K
R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L203	NQL092K-3R3X	COIL	3.3uH K
R221	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L301	NQL034K-100X	COIL	10uH K
R222	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	L901	NQL034K-100X	COIL	10uH K
R223	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L902	NQL034K-100X	COIL	10uH K
R224	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L903	NQL034K-100X	COIL	10uH K
R301	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L904	NQL034K-100X	COIL	10uH K
R302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN0J1	QGA2001F2-09V	CONNECTOR	W-B (1-9)
R303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	K001	NQR0389-003X	FERRITE BEADS	
R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K002	NQR0389-003X	FERRITE BEADS	
R305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K902	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R310	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K905	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R311	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	K906	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R314	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K907	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K908	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R318	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	LC001	NQR0415-003X	EMI FILTER	0.47uF 16V M
R319	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	LC002	NQR0415-003X	EMI FILTER	0.47uF 16V M
R320	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	X001	NAX0644-001X	CRYSTAL	6.000000MHz
R321	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	X201	NAX0661-001X	CRYSTAL	
R322	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	X301	NAX0643-001X	CRYSTAL	
R323	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R324	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R325	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R326	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J				
R327	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J				
R328	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R329	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J				
R330	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R331	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R332	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R333	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R334	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				

# PRINTED WIRING BOARD PARTS LIST [AV-28H40SU]

## MAIN P.W. BOARD ASS'Y (SML-1202A-U2)

REFER TO PARTS LIST IN PAGE 3-9 FOR THIS P.W. BOARD.

## AV JACK P.W. BOARD ASS'Y (SML0J201A-U2)

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

## POWER&DEF P.W. BOARD ASS'Y (SML-2202A-U2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

## 100HZ P.W. BOARD ASS'Y (SML0Z202A-U2)

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

## CRT SOCKET P.W. BOARD ASS'Y (SML-3202A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8122A-U2)

△Ref No.	Part No.	Part Name	Description Local
C8101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C8102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C8103	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C8104	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C8131	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C8132	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C8133	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
R8111	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R8112	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R8113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8133	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
L8111	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L8112	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L8131	QQL244K-270Z	PEAKING COIL	27uH K
L8132	QQL244K-270Z	PEAKING COIL	27uH K
CN810F	QGA2501C1-12	CONNECTOR	W-B (1-12)
CN810K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
J8111	QMS3001-C01	3.5 JACK	HEADPHONE
J8131	QNN0591-001	PIN JACK	V/L/R IN
J8132	QND0084-001	S JACK	S IN
K8111	NQR0389-003X	FERRITE BEADS	
K8131	NQR0389-003X	FERRITE BEADS	
S8101	QSW0619-003Z	TACT SWITCH	CH+
S8102	QSW0619-003Z	TACT SWITCH	MENU
S8103	QSW0619-003Z	TACT SWITCH	CH-

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8202A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC8851	GP1UM281QK	IR DETECT UNIT	38kHz
Q8801	UN2212-X	TRANSISTOR	
D8801	LSR22440	LED	POWER
D8851	MA8068/M/-X	Z DIODE	
C8851	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C8852	QETN1CM-107Z	E CAPACITOR	100uF 16V M
△C8901	QFZ9072-474	MM CAPACITOR	0.47uF AC250V K
R8801	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R8802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R8804	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
CN800B	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
CN800W	CHGH0001-0H	CONNECTOR ASSY	
CN80PW	QGAB801C1-02	CONNECTOR	W-B (1-2)
△F8901	QMF51D2-3R15-J1	FUSE	3.15A AC250V
△LF8901	QQR1095-001	LINE FILTER	
△S8901	QSW0824-001	PUSH SWITCH	POWER

# PRINTED WIRING BOARD PARTS LIST [AV-28H77SK]

## MAIN P.W. BOARD ASS'Y (SML-1922A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3411GQAC1201	IC	
IC201	CXA2089Q-X	IC	
IC501	LM324D-X	IC	
IC601	HA17558AF-X	IC	
IC651	AN5277	IC	
IC681	BH3544F-X	IC	
IC701	AT24C32-28H4SU	IC	(SERVICE)
IC901	AN78L08-T	IC	
IC902	MM1565AF-X	IC	
Q002	2SC3928A/QR/-X	TRANSISTOR	
Q101	UN2213-X	DIGI TRANSISTOR	
Q201	2SC3928A/QR/-X	TRANSISTOR	
Q202	2SC3928A/QR/-X	TRANSISTOR	
Q203	2SC3928A/QR/-X	TRANSISTOR	
Q204	2SC3928A/QR/-X	TRANSISTOR	
Q205	2SC3928A/QR/-X	TRANSISTOR	
Q206	2SC3928A/QR/-X	TRANSISTOR	
Q207	UN2226-X	DIGI TRANSISTOR	
Q208	2SC3928A/QR/-X	TRANSISTOR	
Q209	2SC3928A/QR/-X	TRANSISTOR	
Q210	2SA1530A/QR/-X	SI TRANSISTOR	
Q211	UN2226-X	DIGI TRANSISTOR	
Q212	2SA1530A/QR/-X	SI TRANSISTOR	
Q213	UN2226-X	DIGI TRANSISTOR	
Q214	UN2226-X	DIGI TRANSISTOR	
Q215	KTA1267/YG-T	TRANSISTOR	
Q216	2SC3928A/QR/-X	TRANSISTOR	
Q217	KTC3199/YG-T	TRANSISTOR	
Q218	UN2226-X	DIGI TRANSISTOR	
Q219	UN2226-X	DIGI TRANSISTOR	
Q305	KTC3199/YG-T	TRANSISTOR	
Q501	2SC3928A/QR/-X	TRANSISTOR	
Q502	2SC3928A/QR/-X	TRANSISTOR	
Q621	2SA1530A/QR/-X	SI TRANSISTOR	
Q623	UN2226-X	DIGI TRANSISTOR	
Q624	UN2226-X	DIGI TRANSISTOR	
Q628	UN2213-X	DIGI TRANSISTOR	
Q629	2SC3928A/QR/-X	TRANSISTOR	
Q632	2SA1530A/QR/-X	SI TRANSISTOR	
Q641	2SA1530A/QR/-X	SI TRANSISTOR	
Q642	UN2226-X	DIGI TRANSISTOR	
Q643	UN2226-X	DIGI TRANSISTOR	
Q681	UN2226-X	DIGI TRANSISTOR	
Q701	2SA1530A/QR/-X	SI TRANSISTOR	
Q702	2SC3928A/QR/-X	TRANSISTOR	
D201	MA8120/M/-X	Z DIODE	
D202	MA8120/M/-X	Z DIODE	
D203	MA8120/M/-X	Z DIODE	
D204	MA8120/M/-X	Z DIODE	
D205	MA8120/M/-X	Z DIODE	
D206	MA8120/M/-X	Z DIODE	
D207	MA8120/M/-X	Z DIODE	
D208	MA8120/M/-X	Z DIODE	
D209	MA8120/M/-X	Z DIODE	
D501	MA111-X	SI DIODE	
D502	MA111-X	SI DIODE	
D503	MA111-X	SI DIODE	
D504	MA111-X	SI DIODE	
D623	MA111-X	SI DIODE	
D624	MA111-X	SI DIODE	
D626	MA111-X	SI DIODE	
D627	MA111-X	SI DIODE	
D629	MA111-X	SI DIODE	
D630	MA111-X	SI DIODE	
D631	MA111-X	SI DIODE	
D633	MA111-X	SI DIODE	
D651	MA8330/L/-X	Z DIODE	
D653	MA8330/L/-X	Z DIODE	
D681	MA111-X	SI DIODE	
D701	MA8056/M/-X	Z DIODE	
D702	MA8056/M/-X	Z DIODE	
D703	MA8056/M/-X	Z DIODE	
D704	MA8056/M/-X	Z DIODE	
D705	MA111-X	SI DIODE	
D981	MA111-X	SI DIODE	
D982	MA111-X	SI DIODE	
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K

△Ref No.	Part No.	Part Name	Description Local
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C124	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C125	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C130	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C131	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C211	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C212	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C219	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C309	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C601	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C603	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C604	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C605	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C606	NCB31HK-153X	C CAPACITOR	0.015uF 50V K



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C607	NCB31HK-122X	C CAPACITOR	1200pF 50V K	R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C608	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C609	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C610	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C611	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C641	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C642	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R248	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C643	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C644	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R250	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C650	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C651	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C652	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R253	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C654	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C657	QETM1VM-228	E CAPACITOR	2200uF 35V M	R255	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C663	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R256	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C664	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R257	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C681	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C682	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C683	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C684	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C685	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C686	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C688	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C689	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C691	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C692	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R203	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R292	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R311	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R312	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R313	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R315	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R222	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R223	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R224	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R225	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R227	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R229	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R231	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R530	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
				R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R601	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R604	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R606	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R607	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R608	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R609	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R610	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R612	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R613	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R621	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R623	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R624	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R631	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R638	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R641	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R642	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R643	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R644	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R645	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R651	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R652	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R654	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R661	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R673	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R681	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R682	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R683	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R684	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R685	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R688	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R689	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R702	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R703	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
L001	QQL244K-270Z	PEAKING COIL	27uH K
L002	QQL244K-100Z	PEAKING COIL	10uH K
L003	QQL244K-100Z	PEAKING COIL	10uH K
L101	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
L102	QQL244K-4R7Z	PEAKING COIL	4.7uH K
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN002	QGC2507C1-96	CONNECTOR	(1-96)
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN005	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN00B	QJK002-041614	SIN CR C-B WIRE	
CN00F	QGA2501C1-12	CONNECTOR	W-B (1-12)
CN00K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
CN00R	QGA2501C1-09	CONNECTOR	W-B (1-9)
CN0C1	QGA2501F1-06	CONNECTOR	W-B (1-6)
CN0SL	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
CN0SR	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
HS651	LC32265-001A	HEAT SINK/AL-F/	
J001	QNN0596-001	PIN JACK	L/R OUT
K001	NQR0389-003X	FERRITE BEADS	
K101	NQR0389-003X	FERRITE BEADS	
K102	NQR0389-003X	FERRITE BEADS	
K641	NQR0199-001X	FERRITE BEADS	
K642	NQR0199-001X	FERRITE BEADS	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
TU001	QAU0277-001	TUNER	
X101	QAX0773-001Z	CRYSTAL	18.432000MHz

## POWER&DEF P.W. BOARD ASS'Y (SML-2202A-U2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

## CRT SOCKET P.W. BOARD ASS'Y (SML-3202A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8122A-U2)

REFER TO PARTS LIST IN PAGE 3-17 FOR THIS P.W. BOARD.

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8202A-U2)

REFER TO PARTS LIST IN PAGE 3-17 FOR THIS P.W. BOARD.

## AV JACK P.W. BOARD ASS'Y (SML0J201A-U2)

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

## 100HZ P.W. BOARD ASS'Y (SML0Z202A-U2)

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

# PRINTED WIRING BOARD PARTS LIST [AV-32H4BU / AV-32H4SU]

## MAIN P.W. BOARD ASS'Y (SML-1201A-U2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3411GQAC1201	IC	(SERVICE)	C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC201	CXA2089Q-X	IC		C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC501	LM324D-X	IC		C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
IC551	LA6515	IC		C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC601	HA17558AF-X	IC		C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC651	AN5277	IC		C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC681	BH3544F-X	IC		C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC701	AT24C32-28H4SU	IC		C010	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
IC901	AN78L08-T	IC		C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC902	MM1565AF-X	IC		C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q001	2SC3928A/QR/-X	TRANSISTOR		C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q002	2SC3928A/QR/-X	TRANSISTOR		C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q101	UN2213-X	DIGI TRANSISTOR		C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q201	2SC3928A/QR/-X	TRANSISTOR		C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q202	2SC3928A/QR/-X	TRANSISTOR		C104	QETN1CM-107Z	E CAPACITOR	1000uF 16V M
Q203	2SC3928A/QR/-X	TRANSISTOR		C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q204	2SC3928A/QR/-X	TRANSISTOR		C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q205	2SC3928A/QR/-X	TRANSISTOR		C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q206	2SC3928A/QR/-X	TRANSISTOR		C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q207	UN2226-X	DIGI TRANSISTOR		C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q208	2SC3928A/QR/-X	TRANSISTOR		C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q209	2SC3928A/QR/-X	TRANSISTOR		C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q210	2SA1530A/QR/-X	SI TRANSISTOR		C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q211	UN2226-X	DIGI TRANSISTOR		C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q212	2SA1530A/QR/-X	SI TRANSISTOR		C124	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q213	UN2226-X	DIGI TRANSISTOR		C125	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q214	UN2226-X	DIGI TRANSISTOR		C126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q215	KTA1267/YG/-T	TRANSISTOR		C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q216	2SC3928A/QR/-X	TRANSISTOR		C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q217	KTC3199/YG/-T	TRANSISTOR		C130	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q218	UN2226-X	DIGI TRANSISTOR		C131	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q219	UN2226-X	DIGI TRANSISTOR		C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q305	KTC3199/YG/-T	TRANSISTOR		C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q501	2SC3928A/QR/-X	TRANSISTOR		C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q502	2SC3928A/QR/-X	TRANSISTOR		C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q621	2SA1530A/QR/-X	SI TRANSISTOR		C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q623	UN2226-X	DIGI TRANSISTOR		C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q624	UN2226-X	DIGI TRANSISTOR		C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q628	UN2213-X	DIGI TRANSISTOR		C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q629	2SC3928A/QR/-X	TRANSISTOR		C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q632	2SA1530A/QR/-X	SI TRANSISTOR		C211	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q641	2SA1530A/QR/-X	SI TRANSISTOR		C212	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q642	UN2226-X	DIGI TRANSISTOR		C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q643	UN2226-X	DIGI TRANSISTOR		C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q681	UN2226-X	DIGI TRANSISTOR		C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q701	2SA1530A/QR/-X	SI TRANSISTOR		C219	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q702	2SC3928A/QR/-X	TRANSISTOR		C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
				C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D201	MA8120/M/-X	Z DIODE		C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D202	MA8120/M/-X	Z DIODE		C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D203	MA8120/M/-X	Z DIODE		C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D204	MA8120/M/-X	Z DIODE		C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D205	MA8120/M/-X	Z DIODE		C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D206	MA8120/M/-X	Z DIODE		C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D207	MA8120/M/-X	Z DIODE		C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D208	MA8120/M/-X	Z DIODE		C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D209	MA8120/M/-X	Z DIODE		C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D501	MA111-X	SI DIODE		C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D502	MA111-X	SI DIODE		C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D503	MA111-X	SI DIODE		C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D504	MA111-X	SI DIODE		C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D623	MA111-X	SI DIODE		C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D624	MA111-X	SI DIODE		C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D626	MA111-X	SI DIODE		C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
D627	MA111-X	SI DIODE		C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D629	MA111-X	SI DIODE		C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D630	MA111-X	SI DIODE		C309	NCB31HK-102X	C CAPACITOR	1000pF 50V K
D631	MA111-X	SI DIODE		C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D633	MA111-X	SI DIODE		C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
D651	MA8330/L/-X	Z DIODE		C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D653	MA8330/L/-X	Z DIODE		C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D681	MA111-X	SI DIODE		C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D701	MA8056/M/-X	Z DIODE		C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D702	MA8056/M/-X	Z DIODE		C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D703	MA8056/M/-X	Z DIODE		C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D704	MA8056/M/-X	Z DIODE		C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
D705	MA111-X	SI DIODE		C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D981	MA111-X	SI DIODE		C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
D982	MA111-X	SI DIODE		C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
				C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z	R229	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J	R230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C601	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R231	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C603	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C604	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C605	NCB31HK-122X	C CAPACITOR	1200pF 50V K	R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C606	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C607	NCB31HK-122X	C CAPACITOR	1200pF 50V K	R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C608	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C609	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C610	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C611	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C641	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C642	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C643	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C644	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C650	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C651	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R248	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C652	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C654	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R250	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C657	QETM1VM-228	E CAPACITOR	2200uF 35V M	R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C663	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C664	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R253	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C681	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R255	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C682	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R256	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C683	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R257	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C684	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C685	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C686	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C688	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C689	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C691	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C692	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R007	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R009	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R010	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R203	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R292	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R311	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R312	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R313	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R315	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R222	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R223	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R224	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R225	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R227	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
				R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)
R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	CN005	QGB1506L1-16	CONNECTOR	B-B (1-16)
R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	CN00B	QJK002-041614	SIN CR C-B WIRE	
R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	CN00F	QGA2501C1-12	CONNECTOR	W-B (1-12)
R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	CN00K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	CN00R	QGA2501C1-09	CONNECTOR	W-B (1-9)
R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	CN0C1	QGA2501F1-06	CONNECTOR	W-B (1-6)
R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	CN0RT	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	CN0SL	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
R530	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	CN0SR	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	HS651	LC32265-001A	HEAT SINK/AL-F/	
R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	J001	QNN0596-001	PIN JACK	L/R OUT
R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	K001	NQR0389-003X	FERRITE BEADS	
R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	K101	NQR0389-003X	FERRITE BEADS	
R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	K102	NQR0389-003X	FERRITE BEADS	
R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	K551	QQR0621-002Z	FERRITE BEADS	
R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	K552	QQR0621-002Z	FERRITE BEADS	
R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	K641	NQR0199-001X	FERRITE BEADS	
R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K642	NQR0199-001X	FERRITE BEADS	
R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	TU001	QAU0276-002	TUNER	
R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	X101	QAX0773-001Z	CRYSTAL	18.432000MHz
R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J				
R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J				
R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R601	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J				
R602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J				
R603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R604	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R606	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R607	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R608	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R609	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R610	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R612	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R613	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R621	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R623	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R624	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R631	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J				
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J				
R637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R638	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J				
R641	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R642	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J				
R643	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J				
R644	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R645	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R651	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R652	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R654	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R661	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R673	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R681	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R682	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R683	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R684	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R685	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R688	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R689	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R702	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R703	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J				
R710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
L001	QQL244K-270Z	PEAKING COIL	27uH K				
L002	QQL244K-100Z	PEAKING COIL	10uH K				
L003	QQL244K-100Z	PEAKING COIL	10uH K				
L101	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J				
L102	QQL244K-4R7Z	PEAKING COIL	4.7uH K				
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)				
CN002	QGC2507C1-96	CONNECTOR	(1-96)				

### POWER&DEF P.W. BOARD ASS'Y (SML-2201A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC401	AN15526A	IC	
IC461	LM393P	IC	
IC901	STR-F6267S-F7	IC	
△IC941	QAL0515-001	POWER MODULE	
IC951	SE140N	IC	
IC961	BA12T	IC	
IC962	L7809CP	IC	
Q461	RDN050N20	POWER MOS FET	
Q462	KTC3199/YG/-T	TRANSISTOR	
Q463	KTC3199/YG/-T	TRANSISTOR	
Q464	KTA1267/YG/-T	TRANSISTOR	
Q481	DTC124ESA-T	DIGI TRANSISTOR	
Q482	KTC3199/YG/-T	TRANSISTOR	
Q501	BSN304-T	MOS FET	
Q521	2SC5905-RL	POW TRANSISTOR	
Q581	2SA1208/ST/Z1-T	TRANSISTOR	
Q582	DTC144ESA-T	DIGI TRANSISTOR	
Q583	KTC3199/YG/-T	TRANSISTOR	
Q941	KTC3199/YG/-T	TRANSISTOR	
Q942	KTC3199/YG/-T	TRANSISTOR	
D402	1SR35-400A-T2	SI DIODE	
D461	RGP10J-04TS-T3	SI DIODE	
D462	1SS133-T2	DIODE	
D463	1SS133-T2	DIODE	
D481	1SS133-T2	DIODE	
D501	1SS81-T5	SI DIODE	
D521	V11CA-C1	SI DIODE	
D522	FMV-3FU-F1	SI DIODE	
D523	MTZJ22B-T2	Z DIODE	
D525	RGP10J-04TS-T3	SI DIODE	
D541	RGP10J-04TS-T3	SI DIODE	
D542	MTZJ3.9B-T2	Z DIODE	
D551	RGP10J-04TS-T3	SI DIODE	
D552	RGP10J-04TS-T3	SI DIODE	
D553	RH1S-T3	SI DIODE	
D582	MTZJ7.5B-T2	Z DIODE	
D583	MTZJ7.5S-T2	Z DIODE	
D584	RGP10J-04TS-T3	SI DIODE	
D901	TS4B05G	BRIDGE DIODE	
D902	RG1C-LFA1	SI DIODE	
D904	EU2-T2	FR DIODE	
D905	1SS133-T2	DIODE	
D906	MTZJ27B-T2	Z DIODE	
D907	1SS133-T2	DIODE	
D910	MTZJ15B-T2	Z DIODE	
D911	MTZJ15B-T2	Z DIODE	
D931	S1WB/A/60-4101	BRIDGE DIODE	
D945	1SS133-T2	DIODE	
D951	RU4AM-LFT2	SI DIODE	
D952	RU4AM-LFT2	SI DIODE	
D953	RGP10J-04TS-T3	SI DIODE	
D954	RU3YX-LFC4	SI DIODE	
D956	FMX-G12S	SI DIODE	
D958	MTZJ33B-T2	Z DIODE	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
D959	1SS133-T2	DIODE		R402	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J
D981	1SS133-T2	DIODE		R403	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
D982	1SS133-T2	DIODE		R404	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J
D983	1SS133-T2	DIODE		R405	QRL029J-151	OMF RESISTOR	150Ω 2W J
				R406	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C404	QCZ0120-104Z	C CAPACITOR	0.1uF 25V Z	R407	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J
C405	QDC31HJ-820Z	C CAPACITOR	82pF 50V J	R408	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J
C406	QETM1VM-108	E CAPACITOR	1000uF 35V M	R409	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J
C408	QETN1VM-337Z	E CAPACITOR	330uF 35V M	R410	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C409	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	R461	QRG029J-820	OMF RESISTOR	82Ω 2W J
C410	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	R462	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J
C411	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	R463	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
C414	QCB31HK-682Z	C CAPACITOR	6800pF 50V K	R464	QRX01GJ-3R3	MF RESISTOR	3.3Ω 1W J
C415	QCS31HJ-470Z	C CAPACITOR	47pF 50V J	R468	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C461	QEZ0414-226	BP E CAPACITOR	22uF 50V M	R469	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J
C462	QFM72DJ-152Z	M CAPACITOR	1500pF 200V J	R471	QRE141J-391Y	C RESISTOR	390Ω 1/4W J
C463	QFM72DJ-152Z	M CAPACITOR	1500pF 200V J	R472	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F
C464	QCZ0120-104Z	C CAPACITOR	0.1uF 25V Z	R473	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J
C465	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R474	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C466	QFP31HJ-272Z	PP CAPACITOR	2700pF 50V J	R475	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C467	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	R476	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C468	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R477	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
C470	QCS31HJ-470Z	C CAPACITOR	47pF 50V J	R478	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
C471	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	R481	QRE141J-274Y	C RESISTOR	270kΩ 1/4W J
C481	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R482	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C501	QCB32HK-331Z	C CAPACITOR	330pF 500V K	R501	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
C502	QFM72DK-103	M CAPACITOR	0.01uF 200V K	R502	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J
C503	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	R503	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
C521	QFZ0122-112	MPP CAPACITOR	1100pF 1.8kV H	R504	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
C522	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	R505	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
C523	QFM72DJ-393	M CAPACITOR	0.039uF 200V J	R506	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
C524	QFP32JJ-183	PP CAPACITOR	0.018uF 630V J	R521	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
C526	QFZ0197-224	MPP CAPACITOR	0.22uF 250V J	R522	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
C527	QFZ0197-104	MPP CAPACITOR	0.1uF 250V J	R523	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C529	QFZ0197-124	MPP CAPACITOR	0.12uF 250V J	R524	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	R525	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C531	QFZ0194-534	MPP CAPACITOR	0.53uF 250V J	R541	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C532	QETM2CM-227	E CAPACITOR	220uF 160V M	R542	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C533	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	R543	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J
C541	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	R551	QRT039J-1R0	MF RESISTOR	1Ω 3W J
C551	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	R552	QRT039J-1R0	MF RESISTOR	1Ω 3W J
C552	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	△R555	QRZ9022-R56	FUSI RESISTOR	0.56Ω 1W K
C553	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	R561	QRG01GJ-220	OMF RESISTOR	22Ω 1W J
C554	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R562	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
C555	QCB32HK-102Z	C CAPACITOR	1000pF 500V K	R563	QRZ0056-103Z	COMP RESISTOR	10kΩ 1/2W K
C556	QETN2EM-106Z	E CAPACITOR	10uF 250V M	R581	QRF154K-4R7	UNF WW RESISTOR	4.7Ω 15W K
C558	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R582	QRE141J-681Y	C RESISTOR	680Ω 1/4W J
C561	QFLC2AJ-223Z	M CAPACITOR	0.022uF 100V J	R583	QRE121J-682Y	C RESISTOR	6.8kΩ 1/2W J
C581	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R584	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J
C582	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R585	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C583	QETN2AM-106Z	E CAPACITOR	10uF 100V M	R586	QRA14CF-6801Y	CMF RESISTOR	6.8kΩ 1/4W F
C584	QETN1AM-227Z	E CAPACITOR	220uF 10V M	R587	QRA14CF-3481Y	CMF RESISTOR	3.48kΩ 1/4W F
△C901	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	R588	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
△C902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
△C903	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	R901	QRE121J-331Y	C RESISTOR	330Ω 1/2W J
△C904	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R902	QRF054K-3R3	UNF WW RESISTOR	3.3Ω 5W K
△C905	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R903	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K
△C906	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R904	QRL039J-683	OMF RESISTOR	68kΩ 3W J
C907	QEZ0649-227	E CAPACITOR	220uF	R905	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
C908	QCB32HK-103	C CAPACITOR	0.01uF 500V K	R906	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
C909	QCZ0340-391	C CAPACITOR	390pF 2kV K	R908	QRL039J-823	OMF RESISTOR	82kΩ 3W J
C910	QETN1HM-476Z	E CAPACITOR	47uF 50V M	R909	QRL039J-823	OMF RESISTOR	82kΩ 3W J
C911	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	R910	QRE121J-680Y	C RESISTOR	68Ω 1/2W J
C912	QCZ0340-561	C CAPACITOR	560pF 2kV K	R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
C914	QCB31HK-221Z	C CAPACITOR	220pF 50V K	R914	QRM059J-R10	MP RESISTOR	0.1Ω 5W J
C915	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	R915	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
C916	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	R916	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
C917	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R917	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J
△C931	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R944	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
△C932	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R945	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
△C933	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R946	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C934	QEZ0632-226	E CAPACITOR	22uF	R949	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J
C941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M	R951	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
C942	QETN1AM-337Z	E CAPACITOR	330uF 10V M	R952	QRL039J-223	OMF RESISTOR	22kΩ 3W J
C951	QEZ0203-227	E CAPACITOR	220uF 160V M	R953	QRT039J-R33	MF RESISTOR	0.33Ω 3W J
C952	QEZ0255-228	E CAPACITOR	2200uF 16V M	R954	QRT039J-1R5	MF RESISTOR	1.5Ω 3W J
C953	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R981	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J
C954	QETM1VM-228	E CAPACITOR	2200uF 35V M	R982	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C956	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
C957	QETN1AM-477Z	E CAPACITOR	470uF 10V M				
C959	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	L461	QQR1195-001	CHOKE COIL	
C960	QCZ0325-821	C CAPACITOR	820pF 2kV K	L462	QQR1422-001	CHOKE COIL	
C968	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	L521	QQLZ031-180	CHOKE COIL	18uH
△C991	QCZ9079-222	C CAPACITOR	2200pF AC250V M	L522	QQR1191-002	LINEARITY COIL	
△C993	QCZ9079-471	C CAPACITOR	470pF AC250V K	L561	QQLZ028-272	COIL	2.7mH
				L901	QQL401K-100Z	CHOKE COIL	10uH K
R401	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	L902	QQL401K-100Z	CHOKE COIL	10uH K

△Ref No.	Part No.	Part Name	Description Local
△L903	QQR1200-001	CHOKE COIL	
L941	QQL26AM-4R7Z	CHOKE COIL	4.7uH M
L942	QQL26AK-220Z	CHOKE COIL	22uH K
L951	QQLZ026-460	COIL	46uH ±7%
T501	QQR1111-001	LIN COIL	
T561	QQR1096-001	DAF TRANSF	
△T901	QQS0258-001	SW TRANSF	
CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN005	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN00G	QGA2501C5-06Z	CONNECTOR	W-B (1-6)
CN00W	QGA7901C1-02	CONNECTOR	W-B (1-2)
CN00X	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
CN0HV	CHC802T-05N-J	LV CONNECTOR	
△CP931	QMFZ052-2R0-E	FUSE	2A
△CP951	ICP-N75-Y	IC PROTECTOR	2.7A
△CP952	ICP-N75-Y	IC PROTECTOR	2.7A
△CP954	ICP-N75-Y	IC PROTECTOR	2.7A
HS401	LC30416-002A	HEAT SINK/AL-F/	
HS461	CEHT11B-002QS	HEAT SINK	
HS521	LC31212-002A	HEAT SINK/AL-F/	
HS522	CEHT11B-006QS	HEAT SINK	
HS901	LC30774-001A	HEAT SINK/AL-F/	
HS956	CEHT11B-002QS	HEAT SINK	
HS961	CEHT11B-002QS	HEAT SINK	
K401	QQR0621-002Z	FERRITE BEADS	
K522	CE41832-001	LEAD CORE	
K523	CE41832-001	LEAD CORE	
K524	CE41832-001	LEAD CORE	
K901	QQR0679-001	FERRITE BEADS	
K952	QQR0621-002Z	FERRITE BEADS	
K953	QQR0621-002Z	FERRITE BEADS	
K955	QQR0621-002Z	FERRITE BEADS	
△L F901	QQR1095-001	LINE FILTER	
△PC901	PC123Y22FZ	PHOTO COUPLER	
△RY941	QSK0099-001	RELAY	
TH901	CEKP002-003	W POSISTOR	

## CRT SOCKET P.W. BOARD ASS'Y (SML-3201A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC3201	TDA6111Q	IC	
IC3202	TDA6111Q	IC	
IC3203	TDA6111Q	IC	
Q3104	2SC3928A/QR/-X	TRANSISTOR	
Q3105	2SC1627A/OY/-T	SI TRANSISTOR	
Q3108	2SA2005/DE/	POW TRANSISTOR	
Q3109	2SC5511/DE/	POW TRANSISTOR	
Q3301	2SA1530A/QR/-X	SI TRANSISTOR	
Q3303	2SA1530A/QR/-X	SI TRANSISTOR	
Q3304	2SC3928A/QR/-X	TRANSISTOR	
D3102	MA111-X	SI DIODE	
D3103	RH1S-T3	SI DIODE	
D3104	RH1S-T3	SI DIODE	
D3201	EU01N-T2	SI DIODE	
D3202	EU01N-T2	SI DIODE	
D3203	EU01N-T2	SI DIODE	
D3204	RM2C-LFA1	SI DIODE	
D3205	1SR124-400A-T2	SI DIODE	
D3206	1SR124-400A-T2	SI DIODE	
D3207	1SR124-400A-T2	SI DIODE	
D3208	MA8062/M/-X	Z DIODE	
D3209	MA8130/H/-X	Z DIODE	
D3210	MA8130/H/-X	Z DIODE	
D3301	MA111-X	SI DIODE	
D3302	MA111-X	SI DIODE	
D3303	MA111-X	SI DIODE	
D3306	MA8036-X	Z DIODE	
C3106	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C3107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C3110	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3111	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3113	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3114	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3116	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3117	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3118	QETN1AM-337Z	E CAPACITOR	330uF 10V M
C3120	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C3201	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J

△Ref No.	Part No.	Part Name	Description Local
C3202	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3203	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3205	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3206	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3207	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3208	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3209	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3210	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3211	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3212	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3213	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3214	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3215	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3216	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C3218	QETM2EM-336	E CAPACITOR	33uF 250V M
C3219	QFZ0097-223	MM CAPACITOR	0.022uF 1.25KV M
C3221	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3222	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3223	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3224	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3225	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3303	NCB31CK-563X	C CAPACITOR	0.056uF 16V K
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3109	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3112	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3114	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3115	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J
R3116	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R3117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R3122	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3123	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3124	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3125	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3126	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3127	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3128	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3129	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3130	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3131	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3132	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J
R3133	QRL029J-681	OMF RESISTOR	680Ω 2W J
△R3134	QRZ9021-561	FUSI RESISTOR	560Ω 1W J
R3201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3208	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R3209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3218	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3219	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3220	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3223	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3224	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3225	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3226	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3227	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3228	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3230	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R3231	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R3232	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R3234	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R3235	QRC121K-102Z	COMP RESISTOR	1kΩ 1/2W K
R3236	QRZ0107-105Z	C RESISTOR	1MΩ 1/2W K
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3239	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3240	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3241	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3242	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3301	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3302	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3304	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3305	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3306	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R3308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3311	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3312	NRSA63J-120X	MG RESISTOR	12Ω 1/16W J
R3313	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
L3204	QQL26AJ-102Z	PEAKING COIL	1mH J
CN300G	QJK002-063231	SIN CR C-B WIRE	
CN300R	QJB003-093626	SIN ID C-B WIRE	
CN30E1	CE41507-001P	LV CONNECTOR	

△Ref No.	Part No.	Part Name	Description	Local
CN30SC	QGZ0017C1-01Z	CONNECTOR	(1-1)	
CN3VM2	QGA2501C5-03Z	CONNECTOR	W-B (1-3)	
HS3101	CEHP00N-001QS	HEAT SINK		
HS3102	CEHP00N-001QS	HEAT SINK		
HS3201	LC31150-002A	HEAT SINK/AL-F1		
HS3202	LC31150-002A	HEAT SINK/AL-F1		
HS3203	LC31150-002A	HEAT SINK/AL-F1		
K3101	QQR1114-001Z	FERRITE BEADS		
K3103	QQR1114-001Z	FERRITE BEADS		
K3104	QQR1114-001Z	FERRITE BEADS		
K3105	QQR0621-002Z	FERRITE BEADS		
K3202	QQR0679-001	FERRITE BEADS		
SG3201	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3202	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3203	QAF0056-501Z	SURGE ABSORBER	500V M	
△SK3001	QNZ0634-001	CRT SOCKET		

### **SIDE CONTROL P.W. BOARD ASS'Y (SML-8121A-U2)**

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

### **FRONT CONTROL P.W. BOARD ASS'Y (SML-8201A-U2)**

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

### **AV JACK P.W. BOARD ASS'Y (SML0J201A-U2)**

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

### **100HZ P.W. BOARD ASS'Y (SML0Z202A-U2)**

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.



# **PRINTED WIRING BOARD PARTS LIST [AV-32H40SU / AV-32H47SU]**

## **MAIN P.W. BOARD ASS'Y (SML-1201A-U2)**

REFER TO PARTS LIST IN PAGE 3-21 FOR THIS P.W. BOARD.

## **POWER&DEF P.W. BOARD ASS'Y (SML-2201A-U2)**

REFER TO PARTS LIST IN PAGE 3-23 FOR THIS P.W. BOARD.

## **CRT SOCKET P.W. BOARD ASS'Y (SML-3201A-U2)**

REFER TO PARTS LIST IN PAGE 3-25 FOR THIS P.W. BOARD.

## **SIDE CONTROL P.W. BOARD ASS'Y (SML-8122A-U2)**

REFER TO PARTS LIST IN PAGE 3-17 FOR THIS P.W. BOARD.

## **FRONT CONTROL P.W. BOARD ASS'Y (SML-8202A-U2)**

REFER TO PARTS LIST IN PAGE 3-17 FOR THIS P.W. BOARD.

## **AV JACK P.W. BOARD ASS'Y (SML0J201A-U2)**

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

## **100HZ P.W. BOARD ASS'Y (SML0Z202A-U2)**

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

# PRINTED WIRING BOARD PARTS LIST [AV-32H77SK]

## MAIN P.W. BOARD ASS'Y (SML-1921A-U2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3411GQAC1201	IC	(SERVICE)	C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC201	CXA2089Q-X	IC		C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
IC501	LM324D-X	IC		C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC551	LA6515	IC		C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC601	HA17558AF-X	IC		C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC651	AN5277	IC		C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC681	BH3544F-X	IC		C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC701	AT24C32-28H4SU	IC		C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC901	AN78L08-T	IC		C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC902	MM1565AF-X	IC		C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q002	2SC3928A/QR/-X	TRANSISTOR		C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q101	UN2213-X	DIGI TRANSISTOR		C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q201	2SC3928A/QR/-X	TRANSISTOR		C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q202	2SC3928A/QR/-X	TRANSISTOR		C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q203	2SC3928A/QR/-X	TRANSISTOR		C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q204	2SC3928A/QR/-X	TRANSISTOR		C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q205	2SC3928A/QR/-X	TRANSISTOR		C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q206	2SC3928A/QR/-X	TRANSISTOR		C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q207	UN2226-X	DIGI TRANSISTOR		C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q208	2SC3928A/QR/-X	TRANSISTOR		C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q209	2SC3928A/QR/-X	TRANSISTOR		C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q210	2SA1530A/QR/-X	SI TRANSISTOR		C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q211	UN2226-X	DIGI TRANSISTOR		C124	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q212	2SA1530A/QR/-X	SI TRANSISTOR		C125	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q213	UN2226-X	DIGI TRANSISTOR		C126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q214	UN2226-X	DIGI TRANSISTOR		C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q215	KT41267/YG/-T	TRANSISTOR		C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q216	2SC3928A/QR/-X	TRANSISTOR		C130	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q217	KTC3199/YG/-T	TRANSISTOR		C131	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q218	UN2226-X	DIGI TRANSISTOR		C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q219	UN2226-X	DIGI TRANSISTOR		C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q305	KTC3199/YG/-T	TRANSISTOR		C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q501	2SC3928A/QR/-X	TRANSISTOR		C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q502	2SC3928A/QR/-X	TRANSISTOR		C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q621	2SA1530A/QR/-X	SI TRANSISTOR		C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q623	UN2226-X	DIGI TRANSISTOR		C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q624	UN2226-X	DIGI TRANSISTOR		C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q628	UN2213-X	DIGI TRANSISTOR		C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q629	2SC3928A/QR/-X	TRANSISTOR		C211	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q632	2SA1530A/QR/-X	SI TRANSISTOR		C212	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q641	2SA1530A/QR/-X	SI TRANSISTOR		C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q642	UN2226-X	DIGI TRANSISTOR		C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q643	UN2226-X	DIGI TRANSISTOR		C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q681	UN2226-X	DIGI TRANSISTOR		C219	NCB31HK-102X	C CAPACITOR	1000pF 50V K
Q701	2SA1530A/QR/-X	SI TRANSISTOR		C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q702	2SC3928A/QR/-X	TRANSISTOR		C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D201	MA8120/M/-X	Z DIODE		C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D202	MA8120/M/-X	Z DIODE		C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D203	MA8120/M/-X	Z DIODE		C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D204	MA8120/M/-X	Z DIODE		C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D205	MA8120/M/-X	Z DIODE		C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D206	MA8120/M/-X	Z DIODE		C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D207	MA8120/M/-X	Z DIODE		C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D208	MA8120/M/-X	Z DIODE		C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D209	MA8120/M/-X	Z DIODE		C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D501	MA111-X	SI DIODE		C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D502	MA111-X	SI DIODE		C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D503	MA111-X	SI DIODE		C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D504	MA111-X	SI DIODE		C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D623	MA111-X	SI DIODE		C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D624	MA111-X	SI DIODE		C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D626	MA111-X	SI DIODE		C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D627	MA111-X	SI DIODE		C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D629	MA111-X	SI DIODE		C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D630	MA111-X	SI DIODE		C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
D631	MA111-X	SI DIODE		C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D633	MA111-X	SI DIODE		C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D651	MA8330/L/-X	Z DIODE		C309	NCB31HK-102X	C CAPACITOR	1000pF 50V K
D653	MA8330/L/-X	Z DIODE		C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D681	MA111-X	SI DIODE		C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
D701	MA8056/M/-X	Z DIODE		C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D702	MA8056/M/-X	Z DIODE		C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D703	MA8056/M/-X	Z DIODE		C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D704	MA8056/M/-X	Z DIODE		C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D705	MA111-X	SI DIODE		C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D981	MA111-X	SI DIODE		C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D982	MA111-X	SI DIODE		C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
				C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
				C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
				C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
				C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
				C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C601	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C603	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C604	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C605	NCB31HK-122X	C CAPACITOR	1200pF 50V K	R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C606	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C607	NCB31HK-122X	C CAPACITOR	1200pF 50V K	R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C608	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C609	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C610	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C611	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C641	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C642	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R248	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C643	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C644	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R250	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C650	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C651	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C652	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R253	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C654	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C657	QETM1VM-228	E CAPACITOR	2200uF 35V M	R255	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C663	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R256	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C664	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R257	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C681	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C682	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C683	QETN1CM-337Z	E CAPACITOR	330uF 16V M	R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C684	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C685	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C686	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C688	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C689	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C691	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C692	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R203	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R292	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R311	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R312	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R313	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R315	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R222	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R223	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R224	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R225	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R227	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R229	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R231	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
				R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R530	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R601	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R604	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R606	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R607	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R608	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R609	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R610	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R612	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R613	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R621	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R623	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R624	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R631	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R638	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R641	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R642	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R643	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R644	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R645	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R651	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R652	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R654	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R661	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R673	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R681	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R682	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R683	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R684	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R685	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R688	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R689	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R702	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R703	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
L001	QQL244K-270Z	PEAKING COIL	27uH K
L002	QQL244K-100Z	PEAKING COIL	10uH K
L003	QQL244K-100Z	PEAKING COIL	10uH K
L101	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
L102	QQL244K-4R7Z	PEAKING COIL	4.7uH K
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN002	QGC2507C1-96	CONNECTOR	(1-96)
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN005	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN00B	QJK002-041614	SIN CR C-B WIRE	
CN00F	QGA2501C1-12	CONNECTOR	W-B (1-12)
CN00K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)

△Ref No.	Part No.	Part Name	Description Local
CN00R	QGA2501C1-09	CONNECTOR	W-B (1-9)
CN0C1	QGA2501F1-06	CONNECTOR	W-B (1-6)
CN0RT	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
CN0SL	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
CN0SR	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
HS651	LC32265-001A	HEAT SINK/AL-F/	
J001	QNN0596-001	PIN JACK	L/R OUT
K001	NQR0389-003X	FERRITE BEADS	
K101	NQR0389-003X	FERRITE BEADS	
K102	NQR0389-003X	FERRITE BEADS	
K551	QQR0621-002Z	FERRITE BEADS	
K552	QQR0621-002Z	FERRITE BEADS	
K641	NQR0199-001X	FERRITE BEADS	
K642	NQR0199-001X	FERRITE BEADS	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
TU001	QAU0277-001	TUNER	
X101	QAX0773-001Z	CRYSTAL	18.432000MHz

**POWER&DEF P.W. BOARD ASS'Y (SML-2201A-U2)**

REFER TO PARTS LIST IN PAGE 3-23 FOR THIS P.W. BOARD.

**CRT SOCKET P.W. BOARD ASS'Y (SML-3201A-U2)**

REFER TO PARTS LIST IN PAGE 3-25 FOR THIS P.W. BOARD.

**SIDE CONTROL P.W. BOARD ASS'Y (SML-8122A-U2)**

REFER TO PARTS LIST IN PAGE 3-17 FOR THIS P.W. BOARD.

**FRONT CONTROL P.W. BOARD ASS'Y (SML-8202A-U2)**

REFER TO PARTS LIST IN PAGE 3-17 FOR THIS P.W. BOARD.

**AV JACK P.W. BOARD ASS'Y (SML0J201A-U2)**

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

**100HZ P.W. BOARD ASS'Y (SML0Z202A-U2)**

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

**REMOTE CONTROL UNIT PARTS LIST (RM-C64B-1C)**

**[AV-28H4BU / AV-32H4BU]**

△Ref No.	Part No.	Part Name	Description Local
	2AA027770	BATTERY COVER	
	2AA027769	SLIDE DOOR	

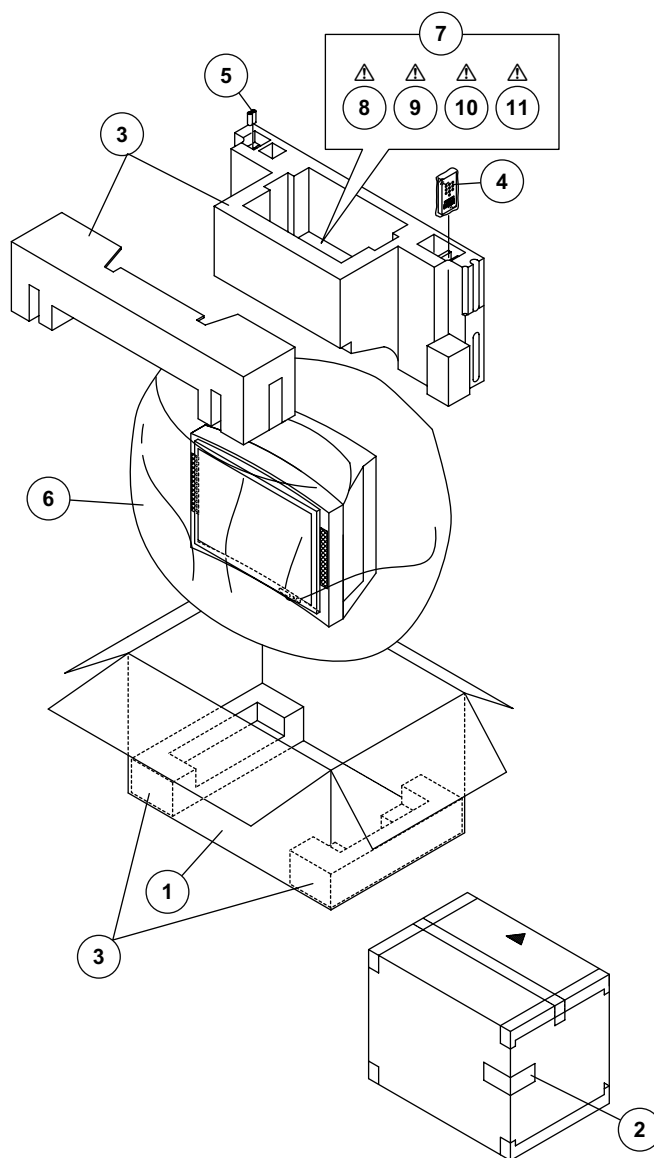
**REMOTE CONTROL UNIT PARTS LIST (RM-C64H-1C)**

**[AV-28H4SU / AV-28H40SU / AV-28H77SK / AV-32H4SU / AV-32H40SU /AV-32H47SU / AV-32H77SK]**

△Ref No.	Part No.	Part Name	Description Local
	2AA030650	BATTERY COVER	
	2AA030646	SLIDE DOOR	

# PACKING-1

[AV-28H4BU / AV-28H4SU / AV-32H4BU / AV-32H4SU]



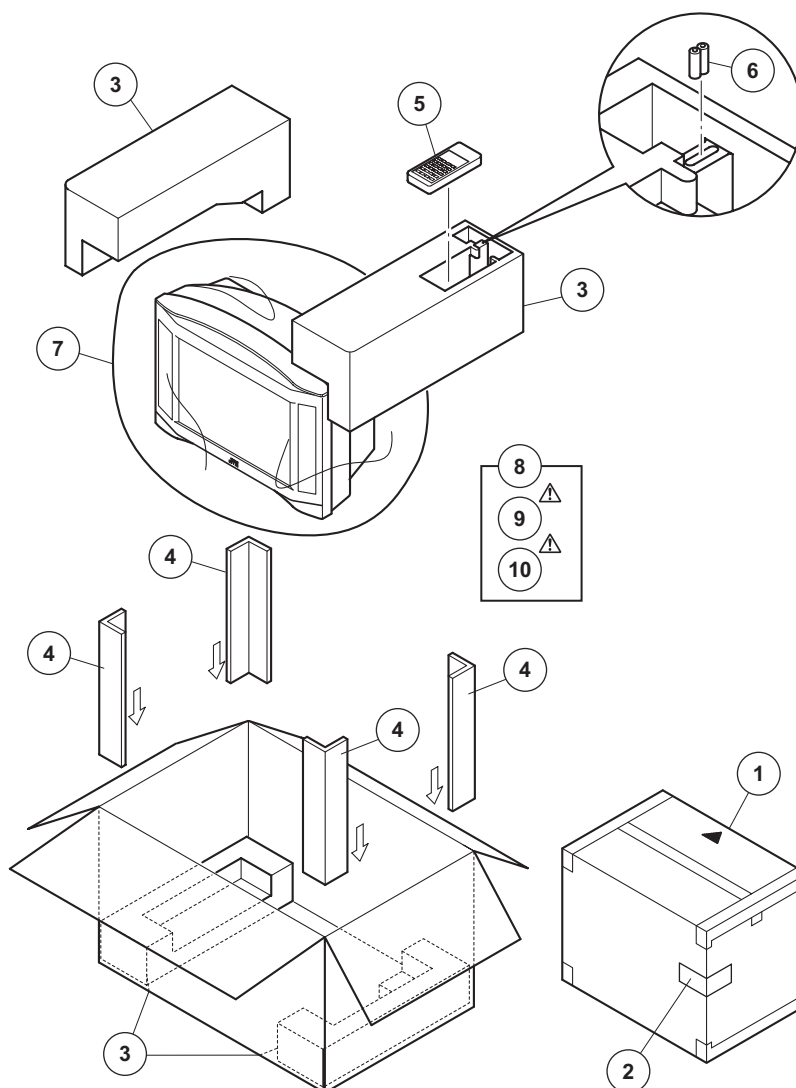
## PACKING PARTS LIST-1

[AV-28H4BU / AV-28H4SU / AV-32H4BU / AV-32H4SU]

△	Ref.No.	Part No.	Part Name	Description	Local
	1	AEM1002-089-E	PACKING CASE		28H4BU,28H4SU
	1	AEM1002-090-E	PACKING CASE		32H4BU,32H4SU
	2	AEM1114-010-E	EURO LABEL		28H4BU
	2	AEM1114-012-E	EURO LABEL		28H4SU
	2	AEM1114-009-E	EURO LABEL		32H4BU
	2	AEM1114-011-E	EURO LABEL		32H4SU
	3	LC11859-001B-U	CUSHION ASSY	4pcs in 1set	28H4BU
	3	LC11859-001A-U	CUSHION ASSY	4pcs in 1set	28H4SU
	3	LC11861-001B-U	CUSHION ASSY	4pcs in 1set	32H4BU
	3	LC11861-001A-U	CUSHION ASSY	4pcs in 1set	32H4SU
	4	RM-C64B-1C	REMOCON UNIT	Inc.PORY BAG	28H4BU,32H4BU
	4	RM-C64H-1C	REMOCON UNIT	Inc.PORY BAG	28H4SU,32H4SU
	5	-----	BATTERY	R6P/AA(x2)	28H4BU,28H4SU,32H4BU,32H4SU
	6	AEM1078-001A-U	POLY BAG		28H4BU,28H4SU,32H4BU,32H4SU
	7	AEM3021-003B-E	DOCUMENT BAGS		28H4BU,28H4SU,32H4BU,32H4SU
△	8	LCT1632-001A-U	CAUTION SHEET		28H4BU,28H4SU,32H4BU,32H4SU
△	9	LCT1583-001A-U	INST BOOK	EN/SP/GE/FR/IT/DE/PO	28H4BU,28H4SU,32H4BU,32H4SU
△	10	LCT1584-001A-U	INST BOOK	NO/DA/SW/FI	28H4BU,28H4SU,32H4BU,32H4SU
△	11	LCT1585-001A-U	INST BOOK	PO/RU/CZ/BU/RO/HU	28H4BU,28H4SU,32H4BU,32H4SU

## PACKING-2

[AV-28H40SU / AV-28H77SK / AV-32H40SU / AV-32H47SU / AV-32H77SK]



## PACKING PARTS LIST-2

[AV-28H40SU / AV-28H77SK / AV-32H40SU / AV-32H47SU / AV-32H77SK]

Ref.No.	Part No.	Part Name	Description	Local
1	AEM1002-B76-E	PACKING CASE		28H40SU,28H77SK
1	AEM1002-083-E	PACKING CASE		32H47SU
1	AEM1002-B79-E	PACKING CASE		32H40SU,32H77SK
2	AEM1114-014-E	EURO LABEL		28H40SU
2	AEM1114-017-E	EURO LABEL		28H77SK
2	AEM1114-013-E	EURO LABEL		32H40SU
2	AEM1114-015-E	EURO LABEL		32H47SU
2	AEM1114-016-E	EURO LABEL		32H77SK
3	LC11318-003G-U	CUSHION ASSY	4pcs in 1set	28H40SU,28H77SK
3	LC11373-003B-U	CUSHION ASSY	4pcs in 1set	32H40SU,32H47SU,32H77SK
4	AEM3119-005B-E	CORNER POST	(x4)	32H40SU,32H47SU,32H77SK
5	RM-C64H-1C	REMOCON UNIT	Inc.POLY BAG	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
6	-----	BATTERY	R6P/AA(x2)	28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
7	AEM1078-001A-U	POLY BAG		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
8	AEM3021-003B-E	DOCUMENT BAGS		28H40SU,28H77SK,32H40SU,32H47SU,32H77SK
9	LCT1586-001A-U	INST BOOK	EN/GE/FR/DU	28H40SU,32H40SU,32H47SU
9	LCT1589-001A-U	INST BOOK	EN/GE/FR/DU	28H77SK,32H77SK
10	LCT1587-001A-U	INST BOOK	DA/NO/FI/SW	28H40SU,32H40SU